CATALOG 74

TECHNI-TOOL®

Note Our New Address:

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Calibrated Fluke Meters are as Close as Your Phone, Fax or E-Mail!

Is stringent accuracy a demand of your company? Do you have to meet the demands of ISO9000 Standards? Are you tired of waiting days or weeks to get the calibrated Fluke Multimeter you need? Do you need a calibrated multimeter, tomorrow?

It's fast. It's easy. Simply pick the meter you require from the chart of Fluke multimeters featured below. Place your order by 5:00PM, E.S.T. any business day, and your meters are certified and shipped to order in 24 hours. You'll receive your Fluke Multimeter, calibrated by Techni-Tool, in compliance with MIL-STD-45662A, using standards and instruments traceable to the National Institute of Standards and Technology (NIST).

"Calibrated Fluke Multimeters meet accredited calibration by the Fluke Primary Standards Laboratory, accredited by NIST, and performed to the published factory specifications of the Fluke product purchased. This includes a Certificate of Calibration and calibration label with date of calibration, to meet ANSI/NCSL Z540-1. A calibration seal is affixed to the instrument."

NIST CERTIFICATE

FLUKE METER	Techni-Tool No.	Description	Calibrated Price
Fluke 10C	374ME100	Digital Multimeter	$113.00
Fluke 11C	374ME110	Digital Multimeter	$123.00
Fluke 12C	374ME012	Digital Multimeter	$129.00
Fluke 16C	374TE487	Digital Multimeter	$163.00
Fluke 51-2C	374TE051	Digital Multimeter	$209.00
Fluke 52C	374TE052	Digital Multimeter	$259.00
Fluke 21-3C	374ME2130	Digital Multimeter	$229.00
Fluke 23-3C	374ME2230	Digital Multimeter	$249.00
Fluke 26-3C	374TE263	Digital Multimeter	$263.00
Fluke 70-3C	374ME7030	Digital Multimeter	$143.00
Fluke 73-3C	374ME073	Digital Multimeter	$169.00
Fluke 75-3C	374ME7530	Digital Multimeter	$199.00
Fluke 77-3C	374TE773	Digital Multimeter	$219.00
Fluke 79-3C	374ME7930	Digital Multimeter	$243.00
Fluke 83-3C	374TE833	Digital Multimeter	$333.00
Fluke 87-3C	374ME0873	Digital Multimeter	$403.00
Fluke 87E-3C	374ME8730	Digital Multimeter	$419.00

FLUKE

UPS Next Day Air Delivers by 10:30 tomorrow morning!

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New Hours: 8am-8pm EST!

HAZ-MAT INFORMATION

All products appearing with this symbol incur an additional per shipment surcharge which will appear on your invoice. Products appearing with this symbol will not incur an additional per shipment surcharge. Items with either symbol must ship via Ground Carrier. We strongly suggest the user purchase in case quantities to minimize your cost. *HAZ-MAT items are non-refundable & non-returnable!*

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Tool Kit & Case

Horizontal Wheeled Maintenance Rapair Tool Kit - 107 pc

Our most requested tool assortment for maintenance repair organizations loaded into our our new horizontal rotationally-molded dense polyethylene case, featuring a padded handle and quick-release metal telescoping handle wheeled case.
Case dimensions: 18" x 15-1/2" x 11-1/2".

***Tools contained in your kit**: Alignment Tool, Mini 5 OAL; Blade, Allen Hex .050", 1/16"; 5/64", 3/32", 7/64", 9/64", 1/8", 5/32", 3/16"; Blade, Torx T6, T8, T10, T15, T20, T25, T27 Screwdrivers; Box, Parts 12-1/4" x 6-1/8" x -1/2", 6 compartments; Box, Parts 7" x 4" x 1-1/16", 17 compartments; Brush, Paint 1"W x 1-3/4" Trim, Industrial; Burnishers; Contact Set of 3; Calculator, Conversion; Case, Wheeled w/Teloscopic Handle,18" x 15-12" x 11-1/2"; Crimper, Super Champ, 22-10 AWG; Cutter, Side, 5-1/2" OAL; Extension (2), 4"; Flashlight, Heavy Duty with Battery, 'D'; Gauge, Thickness, .0015 -.025; Hammer, Ball Pein, 4 oz.; Handle, Jr., 1-1/16" x 3-1/8"; Handle, Regular; Hemostat, Straight 5-1/2" OAL; Holder Parts, 4-1/2" OAL; Iron, Soldering, 25W; Knife, Electricians; Luggage Tag; Mirror, 7/8" Inspection; Nutdrivers, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32" , 3/8", 7/16", 1/2" Hex; Plier, Diagonal, Straight Jaw 4-1/2" OAL; Plier, Groove Joint, 7" & 10"; Plier, Locking, 4"; Plier, Long Nose 4-3/4" OAL; Plier, Slip Joint, 6-1/2" OAL"; Punch, Center 1/16"; Punch, Drive Pin 1/16" 4" OAL; Punch, Pin, 1/8"; Reamer, 1/8" x 3/8" Dia 4" OAL; Rule, Inch & Decimal; Scissor, Electricians; Scratch Awl, 6-1/2" OAL; Screwdrivers, Slotted 1/8" x 10", 1/4" x 8" Blade; Screwdriver, 5/16" X 6" Round Blade; Screwdriver, Slotted 5/32, 5" Oal; Screwdriver, Phillips #0 & #1; Screwdriver, Set Slotted .025 - 100, 7 pc.; Screwdrivers, Slotted 1/4" Stubby, 3/32", 5/32"; Screwstarter, Dbl End 9"; Scribe, Needle Point; Socket Set, 1/4" Drive, 14 pc.; Solder Aid Tool, Brush & Scraper, 7-1/2 OAL; Solder Aid Tool, Fiberglass; Solder Wick; Solder, 60/40 Pocket-Pak; Spring Hook, Pull & Lift; Stripper, Wire w/Cutter; Tape Measure, 1/4" X 10'; Tweezer, Filament Holder; Wrench Set, Ignition; Wrench, Adjustable, 4" & 6".*

Model No.	Description	Qty.	Tool Kit Only 2000-10
2000-10	*Premium*	1-3	$640.00
	Electronic	4-9	$620.00
	Tool Kit -	10+	$599.00
	111 pc		

Voice/Video/Data

FLUKE.

FiberInspector™ Video Microscope

The FiberInspector is a portable video microscope that gives you superior vision by enabling you to inspect all types of installed fiber terminations in hardware devices and patch panels. It saves you time by eliminating the need to access the backside of patch panels or disassemble hardware devices prior to inspection. The FiberInspector can quickly determine whether fiber connectors on a hardware device are clean and in good condition - without disassembling the device. Contains high-magnification optics that provides crisp, clear images of microscopic debris and end-face damage. Eliminates the hazards of inspecting live fibers because it never touches the termination. Features a high-contrast, handheld display that presents instant, sharp images with its 2.5" Active Matrix LCD. This microscope is compatible with standard ST, SC and FC connectors, and other connector types including small form factor connectors with optional adapter tips. **Specs:** General Specifications: Temperature Range: 0°C to 40°C; Humidity Range: 0% to 45% RH non-condensing; Display: Display Type: 2.5" TFT, active matrix, 480 x 234 pixels; Video Output: NTSC; Power Source: NiMH battery or AC power; Dimensions: 2.5" x 2.3" x 8.5"; Fiber Probe: Magnification: 250X ; Camera Type: 0.33" CCD with adjustable focus; Light Source: Red LED; Lighting Technique: Coaxial; Dimensions: 1.3" x 1.3" x 4.3".
Includes: Fiber Probe; Fiber Display; AC adapter/battery charger; Probe Adapter Tips (ST, SC, FC, and universal 2.5mm patch cord tip) and Hard Carrying Case. **(USA)**

No. 374TE387 ..... **$3497.00**

A

LEASING AVAILABLE!

New!

Electrical Meter

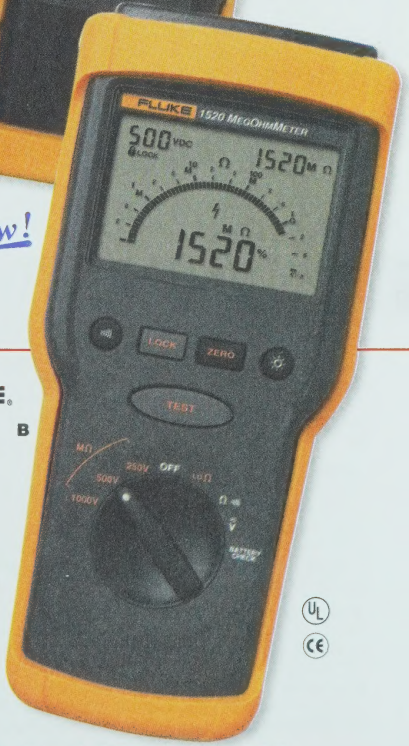
FLUKE.

Fluke 1520 MegOhmMeter

The Fluke 1520 MegOhmMeter test wiring and motor insulation, ground connections and continuity all at the push of a button. This tester also measures voltage and checks connections with its Lo-Ohms functions.
Features: Large, backlit LCD with analog bar graph and digital display; 250V, 500V and 1000V output voltage for insulation resistance testing; insulation resistance testing up to 4000MΩ; AC/DC voltage measurement up to 600V; Last reading memory display; Autodischarge of capacity voltage charges.
3-Year Warranty.

B. No. 374TE152 (Fluke 1520) **$649.00**

B



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New!

LEASING AVAILABLE!

Service Advisor Portable Test Tablet

This state-of-the-art platform is designed for Telco, residential access and line qualification applications. The modular test design enables users to rapidly switch test applications for first tier field deployment and 2nd and 3rd tier regional support. The Service Advisor's advanced Windows CE operating system and consistent graphical user interface provides an easy to use and versatile tool for installing and maintaining services at the Central Office and outside plant. Maximum test flexibility is provided via interchangeable plug-in test modules. **Features:** rechargeable NiMH smart battery; serial and parallel ports; internal speaker; headphone and microphone jacks; remote services provides SCPI command line interface; Supports LAN, and FlashROM PC cards.

No. 374HP565 ..... **$3995.00**

Datacom Test Module

V.35 testing
No. 374HP571 ..... **$2695.00**
RS232 (V.24)
7ft Y cable DB-25 pin
No. 374HP572 ..... **$195.00**
RS-449 (V.36)
7ft Y cable 37 pin
No. 374HP573 ..... **$195.00**
V.35 7ft Y cable
male/female 34 pin
No. 374HP574 ..... **$195.00**

Accessories

External Battery Charger for the N1610A Service Advisor
No. 374HP575 ..... **$395.00**
12 Vdc Vehicle Power Adapter for the N1610A Service Advisor
No. 374HP576 ..... **$129.00**
Soft Carry Case
No. 374HP577 ..... **$250.00**
Hard Carry Case for the N1610A Service Advisor
No. 374HP578 ..... **$595.00**

Service Advisor Connectivity Kit

Includes: DB9(f) and DB9(f) null modem cable and Service Advisor companion software.
No. 374HP579 ..... **$95.00**

New!

T1 Test Advisor

T1 Test Advisor Brick
No. 374HP580 ..... **$6000.00**
Voice frequency plug-in for use with T1 Test Advisor
No. 374HP581 ..... **$995.00**

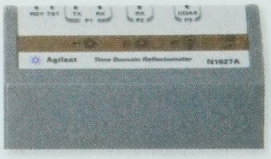
RS-232 plug-in for use the T1 Test Advisor
No. 374HP582 ..... **$250.00**
V.35 plug-in for use with T1 Test Advisor
No. 374HP583 ..... **$350.00**

RS-499 Plug-in for use with T1 Test Advisor
No. 374HP584 ..... **$250.00**
LAN Interface for T1 and E1 Test Advisor
No. 374HP585 ..... **$495.00**

Dual DS1/0 Test Module

The Dual DS1/0 Test Module for the Service Advisor provides comprehensive dual DS1 testing. Features: 2x Rx and 2x Tx; T1 and Nx56kbps and Nx64kbps BERT; Unframed, ESF, SF and SLC-96 testing; T1/DDS Testing; Monitors and inserts errors, alarms, loop codes and tones; Audio input and output; Signaling and pulse mask measurement operations.

No. 374HP570 ..... **$5995.00**



Time Domain Reflectometer (TDR) Test Module

The TDR Test Module for the Service Advisor is a general-purpose metallic cable TDR. It provides TDR line qualification testing in short and long distance applications on any type of cable network including twisted pair and coaxial and LAN. **Features:** Balance (coaxial) and unbalanced cable interfaces; TDR, crosstalk and return loss measurements; Auto-fault location; Wave-form storage and comparison; 10' to over 20,000' range.

No. 374HP567 ..... **$2995.00**

xDSL TIMS Test Module

The xDSL TIMS Test Module provides comprehensive subscriber loop testing to 2 MHz. Features: line qualification test sequences for DSL installations including ADSL, HDSL, SDSL, and IDSL; line qualification test sequences for analog services including VF-POTS and Modem; 36 Individual tests; ANSI and ITU-T versions; *Complies with IEEE-743, T1.413;* User defined sequences; Standard custom line qualifications.

No. 374HP566 ..... **$5995.00**

Dual Line DS3/1 E3/1 Test Module

The Dual Line DS3/1 E3/1 Test Module for the Service Advisor is the ideal tool to quickly develop, install and maintain DS3, E3, DS1, and E1 services. **Features:** Unique dual line testing capability reduces multiplexer test time; Auto Setup; BERT Testing; Mux/Demux Testing; Comprehensive data analysis; Error and Alarm Testing.

No. 374HP568 DS3/1, E3/1 base with BNC Connector **$4995.00**
No. 374HP569 DS3/1/0 and M13 Mux/Demux Tester **$2490.00**

auroraPresto DSL Tester

Provides all the functions necessary for a technician to install, maintain and troubleshoot Asymmetric Digital Subscriber Lines and services. Analog line testing, ADSL layer with "Golden Modem" operation and ATM layer or IP application layer testing are all easy using "one touch" fully automatic or manual mode. Select from up to 20 user defined test profiles for fully automated Go/No Go testing. Provides ATU-C (Central Office Modem) simulating network to Modem/DTE or ATU-R(Remote Modem) operation simulating modem to DTE or DTE/Modem to network. Also features Upstream/Downstream rates and DMT BIN capacity, Golden modem through-line and termination mode testing, Line BERT and quality test and Noise test with graphical results; ATM BERT measurements; VCI/VPI Statistics and Errors; ATM cell stream throughput tests; Storage of test results for export and more

LEASING AVAILABLE!

Alcatel DMT ATU-R Testing
No. 374HP586 ..... **$2995.00**
Alcatel DMT ATU-R and ATU-C Testing
No. 374HP587 ..... **$4995.00**

auroraDuet Complete Primary and Basic Rate ISDN Tester

The auroraDuet has been designed to provide ISDN technicians and engineers and installation, troubleshooting and maintenance. Its versatility lies in being able to emulate ISDN from both the network and customer sides. The troubleshooting capabilities provide testing of local loop at the U-interface, in TE mode it simulates terminal equipment and validated line operation on S/T and U interfaces, checks cable continuity to S bus problems, and monitors D-Channel traffic and S/T and U interfaces for problem analysis. **Features:** Emulation; Monitor & Analysis Capabilities; Automatic Service Tests; Voice and Data Tests; BERT Statistics; Multiple Interfaces; Multi-Protocol (National ISDN, AT&T, Nortel); Battery/AC Operation. **Includes:** Basic Rate and Primary Rate ISDN Tester with Basic Rate and Primary Rate with S and 2B1Q interface and 2 T1 interface ports.

Bantam to Bantam cables.

LEASING AVAILABLE!

No. 374HP592 ..... **$8995.00**
auroraExpert and Remote Control Software.
No. 374HP593 ..... **$9995.00**
110V AC US adapter/charger for auroraDuet
No. 374HP594 ..... **$100.00**

LEASING AVAILABLE!

auroraPlus - Handheld Testing for Basic Rate ISDN

The auroraPlus is an easy-to-use handheld Basic Rate ISDN and POTS tester for the office of field technician. With its simple menu driven interface and the flexibility of the national ISDN protocol as well as AT&T and Nortel switch protocols it can locate faults and isolate problems immediately. Functions Include: Service check for individual B-Channels for a given SPID; B-channel Selection for service checks and outgoing calls; Dual Simultaneous B-Channel Calls for Voice and Data; Dual Outgoing Data Call Test; D-Channel Packet Test; Operation on S- or U- interface; Selectable BERT duration's including Custom and Continuous; Loopback for Bit Error Rate Testing; Display of NEBE/FEBE count of U-interface; Sealing Current Check: for U-interface or POTS; 1-Key Redial; 10-number speed dial storage; POTS monitor: detects crosstalk or draws dialtone; POTS Testing: DTMF or pulse dialing; Line Voltage Display to identify interface type; AutoSPID and EasySPID support.

ISDN Basic Rate S & U
No. 374HP596 ..... **$1395.00**
ISDN Basic Rate S&U with POTS
No. 374HP597 ..... **$1595.00**
100V AC US Charger/Adapter
No. 374HP598 ..... **$75.00**
Soft Carry Case
No. 374HP599 ..... **$50.00**

LT2000 Digital Subscriber Loop Line Tester

The LT2000 Line Tester is an easy to operate, battery powered and cost effective field instrument for verifying the quality of copper pairs for analog and digital transmissions. The LT2000 can perform measurements for Noise, Level, Attenuation, Crosstalk and Return Loss for a variety of transmission systems including Base Band, 160kbit/s, 1.5 Mbit/s, 2 Mbit/s, HDSL and ADSL.

No. 374HP588 ..... **$2795.00**

Watch For Our NEW e-commerce internet site ...COMING January 2001!

auroraJazz ATM Tester

The auroraJazz is a robust, portable tester providing all the test functions necessary to ensure ATM networks operate at their maximum efficiency. The auroraJazz can contain two user-changeable interface modules allowing a mixture of SDH, SONET, or PDH line testing for complete physical layer, framing analysis, and error reporting from 1.5Mbit/s to 155Mbit/s. With a large full color LCD screen and graphical user interface, the simple cursor and menu driven software provide easy access to all the test functions and applications. This tester provides all the test needs for operational ATM networks including: Emulate end equipment or transmission network and more.

auroraJazz ATM Tester Base Unit.
Includes: CD-ROM Manual; serial and Ethernet cables; carry strap; short users guide; 100VAC US adapter.
No. 374HP589 ..... **$8495.00**

DS3 and DS1 Interface Module
No. 374HP590 ..... **$3995.00**
1310nm SM IR OC3/STM-1o Interface Module
No. 374HP591 ..... **$5495.00**

LEASING AVAILABLE!

New!

auroraTempo - Easy, Comprehensive Testing of Frame Relay Services

The auroraTempo provides a full suite of physical layer and Frame Relay protocol tests. Speedily verify the service, examine, statistical analysis, and detailed simulation for both Switched Virtual Circuits (SVCs) and Permanent Virtual Circuits (PVCs). Features: Full SVC and PVC simulation; CIR testing; Frame Relay decode; Extensive statistics; IP PING generation; Exhaustive physical layer testing; Accommodates Full Duplex T1 and V-series interface modules; 2 Rx and 1 Tx on each interface; Dual port, full-duplex operation; intuitive menu system; large display. Includes: 1x V/X & 1x T1 interfaces, Physical Test and Frame Relay PVC test software. Includes: V.35, 2 Bantam and serial port cables.

No. 374HP595 ..... **$12494.00**

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LaserTest SX30

The SX30 is equipped with a program to test all printers that utilize the Canon SX laser printer engine, such as the Hewlett Packard series II, III, Apple Series II, and 250 other models of laser printers. Weighing only 6 oz., the SX30 is designed to be expandable by the use of expansion modules. This tester can be used to service today's printers as well as printers of tomorrow. The SX30 utilizes the power of the printer it is testing, so you'll never need batteries or bulky power supplies again. ***One-Year Warranty.*** **(USA)**

A. No. 505TE300 ..... **$295.00**

LaserTest NX60 Expansion Module

This expansion module allows LaserTest users to fully test and exercise all laser printers that use the Canon NX engine such as the Hewlett Packard LaserJet series IIISI, 4SI, and 42 other laser printers. Monitor D.C. and high-voltage voltages, generate test patterns, choose from 11 different paper feed selections, override errors, and many other features. ***One-Year Warranty.*** **(USA)**

B. No. 505TE600 ..... **$109.00**

LaserTest BX36 Expansion Module

Use this expansion module to test all laser printers that use the Canon BX laser printer engine such as the popular Hewlett Packard 4V and 18 other laser printers. The BX36 is very similar in functionality as to the LaserTest NX60 expansion module. ***One-Year Warranty.*** **(USA)**

C. No. 505TE360 ..... **$109.00**

LaserTest EX98Pro Expansion Module

This expansion module allows you to test and operate all laser printers that use the popular Canon EX and EX plus others such as Hewlett Packard LaserJet 4, 4+, 5, Apple 600 series and 38 other models of laser printers. The EX98pro fully tests and operates the paper pickup unit, scanning assembly, envelope feeder, optional paper tray, and even the duplex unit, externally and disassembled from the printer. ***One-Year Warranty.*** **(USA)**

D. No. 505TE980 ..... **$250.00**

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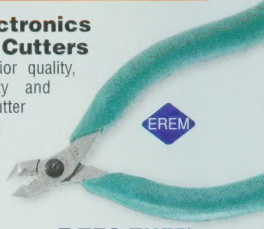
Medical Electronics Carbide Tip Cutters



Designed for superior quality, precision, reliability and ergonomics. The cutter blades are precision fitted with carbide inserts so you can cut MP35M stainless wire 0.10 mm to 0.50mm in diameter found in the manufacture of stents, catheters, and guide wires. Provides a super full flush cut for critical applications. The oblique cutting head is angled at 30° to ease the stress of your wrist. Has ESD safe cushion grips for unmatched comfort and protection. (Switzerland)

No. 272PR503 ..... **$168.50**

SMD Conductive Boxes

Safely store and transport components like resistors, capacitors, diodes, SOICs, PLCCs, SOTs and other small surface mounted devices with these SMD Conductive Boxes. These boxes provide convenient kitting, in-process handling and safe transport of static sensitive devices. Boxes have an interlocking modular design to permit the option of combining as many boxes as are required, and the spring-loaded lids have a stay-open feature for convenient loading and unloading of quantities of parts. Boxes have a surface resistivity of 10^2 to 10^5 Ω/sq. cm. **(USA)**

0.5"L x 0.5"W x 0.65"H
No. 337ST012 ..... **$2.60**/ea.
0.6"L x 1.1"W x 0.65"H
No. 337ST022 ..... **$3.00**/ea.
1.6"L x 1.1"W x 0.65"H
No. 337ST032 ..... **$3.50**/ea.

Leatherman® Sideclip™

The Sideclip™ gives you a handy clip to make carrying easy. **Features:** 100% Stainless steel; needlenose and regular pliers; wire cutters and hard wire cutters; drop point knife; 8"/20cm ruler; a small, medium and large standard screwdriver; Phillips screwdriver; can/bottle opener; clip; and lanyard hole. ***25-Year Guarantee.*** **(USA)**

No. 506PL001 ..... **$36.30**

TECHNI-TOOL®

Your choice for superior service... on the phone, on-site or on-line.

Q: WHY should I trust my order to Techni-Tool?

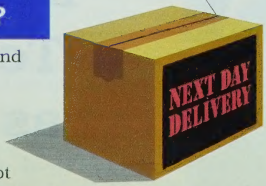
41 YEARS OF CUSTOMER SERVICE

A: At Techni-Tool, we've always been about reliable quality products, efficient delivery and customer service. In fact, for over forty-one years we have believed that "...Customer Service is our most important product." Our phones are staffed with friendly, Techni-Tool employees dedicated to making quality service their highest priority, on the phone, in-person, by fax or e-mail. They inform you about current pricing, availability and delivery. They'll be happy to provide you a free written quotation; make sure your order is shipped promptly; arrange overnight shipping; discuss quantity discount pricing; or even track your shipment. We even have multilingual representatives to serve you.

Q: WHO can I meet with in my local area ~ I prefer dealing with a real person?

A: Techni-Tool has more than forty experienced sales professionals, Techni-Tool employees, located nationwide. Our sales professionals are at your service to meet with you, answer your questions and provide product demonstrations. And Techni-Tool is constantly expanding its network across the United States as well as worldwide. We have representatives in Mexico, Canada and Europe — in fact, we do business in more than 100 countries worldwide.

Q: HOW will you process and deliver my order?



A: We believe in "hassle-free" service and delivery. Our goal is to have you as a satisfied customer ~ the first time ~ every time. As a Techni-Tool customer we offer you: Same or next day shipments of stock product, with a 95% fill rate within four hours of receipt of an order for standard product; product backed by this unconditional pledge, "If within 30 days, you are not satisfied with any standard product purchased (except Haz-Mat, Custom Benches, Chairs or Special Order items), you may return it for replacement, credit or refund, exclusive of shipping charges."

Q: WHAT if I have a question about a product or delivery?

A: Toll-free technical support is available 8 a.m. to 8 p.m. eastern standard time, Monday through Friday. And if we don't have the answer, we'll get the answer for you, usually within one hour of your initial call. Plus we will begin providing product information on-line, when we open our new e-commerce web site in 2001.

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3 Reasons Why You Should Trust *Techni-Tool*® to Build Your Next Tool Kit . . .

Experience! Experience! Experience!

With so many companies offering tool kits, field service and production products claiming to be better than all others and boasting they are the best value, how does someone choose what really is the best?

Over forty one years experience in evaluating and testing tool kit cases gave us the answer. The answer to this complex problem makes your job a little easier with *Techni-Tool*® brand-name products. Each first-quality item is guaranteed to maximize your tool kit investment. Each *Techni-Tool*® case must meet the following strict standards:

Quality: Each tool kit and case bearing the *Techni-Tool*® name will be equal to, or better than, similar products in the field and will be produced by industry-known manufacturers.

Value: Each tool kit and case bearing the *Techni-Tool*® name will provide the end-user exceptional value-for the-dollar and a maximum return-on-investment.

Performance: Each tool kit and case bearing the *Techni-Tool*® name will be proven in the field, be able to withstand everyday field use, and be "tools for professional technicians."

Guarantee: Our guarantee is as functional and straight forward as our products. *Techni-Tool*® brand products are guaranteed against defects in materials and workmanship.

"If within 30 days, you are not satisfied with any product you may return it for replacement, credit or refund, exclusive of shipping charges."

In the unlikely event of a defect in our materials, we will promptly repair (or replace) it at our expense. But, like any other product, it is not indestructible and our guarantee does not cover product damage from abuse or mishandling.

Designing a Tool Kit is as Easy as 1-2-3

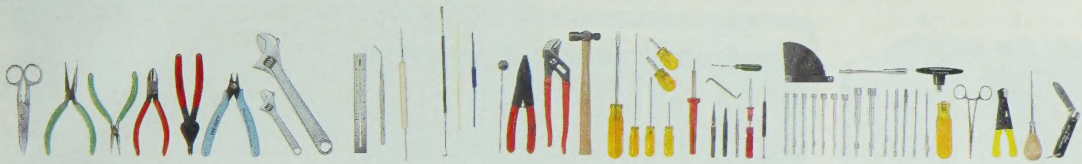
Here's How . . .

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

1. Design-A-Kit®

Design-A-Kit® is the simple way to create your own customized tool kit. You can create a kit for yourself or for an outside field service group of thousands around the world. *Design-A-Kit*® offers you tool uniformity—for today, tomorrow or years from today.

Give Us Your "Wish List" For Tools



Tell Us the Type of Case You Want

We Do the Rest! . . .

We will send your completed customized tool kit or a quotation. Concerned about tools, accessories, etc. that are custom-made or proprietary?

Techni-Tool® respects your concerns. Simply forward your specifications, prints or samples with a non-disclosure agreement. Your sales contact person will provide immediate, prompt service.

For over 41 years, *Techni-Tool*® and *Design-A-Kit*® have saved field service groups, tool cribs, government and military service organizations time and money, by providing one-of-a-kind tool kits. *Design-A-Kit*® benefits continue after you purchase. How? Each *Design-A-Kit*® has a tracking number specific to your organization. Say you're located in New York and two years from now you need a replacement tool or tool kit in England, Japan, anywhere. We will be able to replace the tool or ship a matching kit — across town or around the world.

2. Convert-A-Kit®

Convert-A-Kit® is a practical way to create your own customized tool kit. Simply choose from over 75 pre-configured, professional tool kit designs. You'll find kits targeted to specific industries, each presenting you with the best in select, professional tools and test equipment from companies you know and respect. Tool kit configurations include cleanroom, computer repair, plant maintenance, CATV, datacom, network, broadcast, LAN/WAN, telecommunications, satellite service and more.

Simply pick your kit, choose the tools to eliminate and choose the tools you wish to add. We do the rest! We will send your completed tool kit or a quotation. It's that simple. You never have to buy a tool you will not use or do not need.

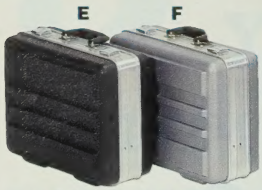
3. Pick-A-Kit®

Pick-A-Kit® is your simple and easy way to choose a tool kit. *Techni-Tool*® has taken the guesswork out of building a tool kit by offering you over 75 pre-configured, professional tool kit designs. You'll find kits targeted to specific industries, each presenting you with the best in select, professional tools and test equipment from companies you know and respect.

Pick-A-Kit® tool kit configurations include cleanroom, computer repair, plant maintenance, CATV, datacom, network, broadcast, LAN/WAN, telecommunications, satellite service and more. You can trust your order with *Techni-Tool*®, knowing that *Pick-A-Kit*® offers you the best for your tool-dollar investment.

TECHNI-TOOL®
Fax: 1-800-854-8665

Design-A-Kit® • Convert-A-Kit® Pick-A-Kit®
We customize kits to meet your needs.



TEC-TUFF

Add to Any Tool Kit!

Metric Conversion Kit - 50 pc

Double your capacity to service products. The 7611, supplied in a corrugated mailer, will fit easily into the bottom of your tool case. This kit contains 50 metric items: Handle Hex Wrench Set,1.27-6mm (10 pc.); Gauge, Feeler Ignition; Wrench Set, 7 pc.; Nutdrivers, 4mm, 4.5mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm; Rule, 6"; Metric Socket Set 1/4" Driver, 4mm-12mm (14 pc); Wrench Set Combo, 7 pc.

No. 7611 ..... (1-3) **$160.00** (4-9) **$155.00** (10+) **$147.00**

LAN/WAN Installers Tool Kit - 152 pc

Tec-Tuff® Deluxe Classic contains all the essential tools for in-plant trouble shooting. It features a careful selection for both rotary and tone systems, plus installation, cabling and computer board service. The kit is packed in our new *Tec-Tuff®* Polyethylene case, with a 10" depth for extra storage space. Dimensions: 18-1/2"L x 13-1/2"W x 10"D. (I.D.) *(Options A, B, C, D, E and F not included)*

Tools contained in your kit: *Adapter, Modular, 4 Wire; Amplifier, Inductive Line Aid, 9V, 700/1300 Hz.; Battery, Size D (2); Blades: Phillips #1 & #2 Screwdriver; Blades, Slotted 3/16" & 1/4" Screwdriver; Brush, Dial Bank Cleaning and Sash; Burnisher, Contact (3); Case, Tec-Tuff, 3 Pallets Polyethylene; Cleaning Tool; Dispenser, Wire 30 AWG -50' Kynar, Blue; Extractor, D.I.P. 4-48 Pin; File Set, Assorted, 3 pcs. w/Handle; Flashlight; Gauge, Dynamometer, 5-50 Grs; Gauge, Thickness, 1 ea. 17 & 26 Leaves; Hacksaw, Mini; Hammer, Ball Pein; Handle, Regular; Hemostat, Straight; Hex Key Set, Fold-Up, 9 pc., .050" - 3/16"; Impact Tool, w/66 Blade "D814 Handle"; Inserter, 14/16 Pin, Little Dipper; Key Cap Remover Kit, Field Service Static Dissipative, w/Access Kit, ID For Telephone Cable; Knife, #1 w/Safety Cap, 5 pk Blade Asst.; Knife, Electrician's; Level, Torpedo; Magnet; Magnifier; Mirror; nutdrivers, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" Hex; Oiler; Orangewood Sticks, 1 ea. Pliers: Cable Cutter, Diagonal Cutter, Diagonal, 5.5" OAL, Tapered, Groove Joint, 10", Lineman's, Locking Long Nose , Locking-Curved Jaw, Long Chain Nose, Long Nose, 5.6" OAL, Concave Outer Jaw, Long Nose, 6" OAL, Insulation Skinner, Oval Head, Retaining Ring, 6" Internal/External, Short Flat Nose, Slip Joint; Puller, Fuse Midget Non Slip; Punch, Center, 3/32", Punch, Pin, 1/8"; Reamer, T-Handle; Scissor, Electrician's; Scratch Awl; Screwdrivers: Offset 5/32" Slotted Blade, Offset, Phil #1 & #2, Double End, Phillips #0 w/Pocket Clip, Screw Guiding Pin, Set Slotted .025"-.100", 7 pc., Slotted 3/32" x 2", 1/8" x 8" Blade, Slotted 10" For #6-8-10-12 Screws Screwstarter, Phillips, 2-13/16" OAL, Socket Set, 1/4" Drive 14 pcs.; Solder Aid Tool, Fork & Hook; Solder Removal Tool; Solder Wick; Solder, Pocket-Pak; Soldering Iron, 25W; Spring Hook Set, 8 pcs.; Spring Hook, Pull & Lift; Stripper, 5-in-1 Tool; Tape Measure; Tape, Cold Shrink; Tensioning Tool; Tracer; Tweezers, Angular Filament Holder; Unwrap Tool, Manual, Type "E"; Wire-Wrap Tool, Manual, 22-24AWG, Type "A"; Wire-Wrap Tool, Manual, 24AWG, 26 AWG, Type "A"; Wrench Set, Combo, 10 pcs. Midget w/Pouch; Wrench, Adjustable, 4"; Wrench, Adjustable; 8" Wrench, Can w/Stripper.*

Model No.	Description	Qty.	Silver Tool Kit Only 9811	Black Tool Kit Only 9811-1	A. IDS LAN Breakout Box 474LA088	B. Progressive Mini-Tracker 666TE508	C. Triplett Fox & Hound 2 790TE248	D. Harris TS22 Butt Set 300TE100	E. *Tec-Tuff®* Black Case & Pallets Only 658CA988	F. *Tec-Tuff®* Silver Case & Pallets Only 658CA986
9811	*LAN/WAN*	1-3	$1545.00	$1545.00	$495.00	$240.00	$75.00	$355.50	$170.00	$170.00
9811-1	*Installers*	4-9	$1510.00	$1510.00	$485.00	$232.00	$70.00	$349.00	$165.00	$165.00
	Tool Kit - 152 pc	10+	$ 1475.00	$1475.00	$470.00	$221.00	$65.00	$345.00	$149.00	$149.00

Techni-Tool Exclusives!

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Rugged Anodized Aluminum!

Datacom Engineer Kit - 88 pc

Don't let the looks of our *Tec-Tuff*® DeLux™ deep drawn, anodized-Aluminum tool case fool you. This case is designed to withstand your daily use in the field. Formed from a thick aluminum sheet, the Tec-Tuff® DeLux™ features an extra-wide valance, two chromed-steel draw-bolt locks, three wide metal hinges, four tough metal feet and a soft rubber, comfort-grip handle. 18-1/2"L x 14"H x 7"W (I.D.).

Tools contained in your kit: *Alignment Kit: Allen Hex .050 X 4", 1/16", 5/64", 3/16", 3/32 x 4", 1/8 x 4", 5/32 x 4", 7/64", 9/64" Blade: Blade, Phillips #1, #2 Screwdriver; Blade, Torx T6, T8, T10, T15 Screwdriver Box, Parts 7" x 4" x 1-1/16", 17 Compartments; Box, Parts 12-1/4" x 6-1/8" x ; 1-1/2", 6 Compartments Burnishers: Calculator, Conversion: Case, Tec-Tuff Aluminum, 18-1/2" x 14" x 7"; Extension, 4" : Handle, Regular; Hemostat, Straight Lock; Inductive Amplifier ; Knife, Electrician's ; Luggage Tag, Reflex Blue: Magnifier: Mirror, Inspection; Nutdriver, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", Hex; Oiler, 2 oz. Plastic; Pedestal Telephone Tool 5/32" Hex 9.75" Oal; Plier, Long Nose w/Cutter Serrated: Plier, Micro-Shear: Plier, Midget Oval Head; Probe, Communication Wiring: Punch Down Tool; Punch, Drive Pin 1/16"; Punch, Pin, 1/8"; Scissor, Electrician's; Screwdriver, Phillips #0 1/8" x 2", 4-5/8" OAL: Screwdriver, Slotted 1/8" x 8" 10-5/8"; 5/16 x 6"; Screwstarter, 3/16" x 6-1/2"; Sensor, AC; Socket Set, 1/4" 14/Pcs; Solder, 60/40; Soldering Iron, 25w; Spring Hook, Pull; Spring Hook, Pull & Lift; Stripper, Wire w/Cutter; Tape Measure; Test Set; Tweezer, Filament Holder; Wrench Set, Ignition, 7/32" Thru 7/16"; Wrench, Adj., 4" & 8"*

Model No.	Description	Qty.	Tool Kit Only 9803	*Tec-Tuff*® Case & Pallets Only 758CA447
9803	*Datacom Engineer*	1-3	$670.00	$110.00
	Kit - 88 pc	4-9	$659.00	$99.00
		10+	$644.00	$89.00

Add to Any Tool Kit!

Metric Conversion Kit - 50 pc

This kit contains 50 metric items: Handle Hex Wrench Set,1.27-6mm (10 pc.); Gauge; Feeler Ignition Wrench Set, 7 pc.; Nutdrivers, 4mm, 4.5mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm Rule, 6" Metric Socket Set 1/4" Driver, 4mm-12mm (14 pc.), Wrench Set Combo, 7 pc.

No. 7611 .... (1-3) $160.00 (4-9) $155.00 (10+) $147.00

Strong. Lightweight. Made of Hardened Aluminum!

Voice/Data/Network Tech Manager Tool Kit - 114 pc

Designed for the Voice/Data/Network Engineer who needs to be prepared for what ever surprises the job site may hold, this special assortment of Datacom field service tools have been placed on our exclusive Novalux® hand-sewn pallets. Your tools are housed in a strong, lightweight, hardened aluminum case. Overall inside case dimensions are: 17-1/2"L x 6"H x 12-1/2"W (I.D.).

Tools contained in your kit: *Adj. Wrench, 4" & 8"; Alignment Kit, 6"; Battery, 'D'; Blade, Phillips #1, #2 Screwdriver: Blade, Slotted 3/16", 1/4", 1/8" Screwdriver; Box, Parts 12-1/4" x 6-1/8" x 1-1/2" 6 Compartments: Brush, Solder: Burnishers, Contact 3 pc; Calculator, Conversion; Case, Aluminum w/2 Pallets 6" Deep; Extension, 4"; Flashlight, Utility: Gauge, Thickness, .0015" - .025", 26 Leaves; Hammer, Ball Pein, 4 Oz.; Handle, Regular: Handle, Tee, 3-1/2 x 1-5/8"; Hemostat, Straight ; Iron, Soldering, 25w & Tip ; Knife; Magnifier 5x; Mirror, Inspection: Nutdriver, 1/2", 1/4", 3/16", 3/8", 5/16", 7/16", 7/32", 9/32", 11/32" Hex: Oiler, Needle Point: Plier, Diagonal, Oval Head, 5"; Plier, Groove Joint, 10"; Plier, Long Nose W/Cutter Serrated, 5.5" Oal; Plier, Long Nose; Plier, Micro-Shear, Flush; Plier, Retaining Ring, 6" Internal/External: Punch, Center, 3/32"; Punch, Drive Pin 1/16"; Punch, Pin, 1/8"; Retrieving Tool, Magnetic: Rule, Flexible: Scissor, Electricians: Scratch Awl, Screwdriver, Offset, Slot #2-#6, 3" Oal; Screwdriver, Phillips #0 4-5/8" Oal: #0 w/Pocket Clip, 4-1/4" OAL; #2 3-3/8" Oal: Screwdriver, Set Slotted .025" - .100" 7 pc ; Screwdriver, Slotted 1/4" Stubby, 3.25" OAL: Screwdriver, Slotted 1/8" x 8" 10-5/8" Oal; 3/32" x 2" 4-1/4" OAL; 5/16" x 6" 10-1/2" OAL; 5/32" x 4", 6-5/8" OAL; Screwholder 3" & 10", Slotted; 1/4" Socket Set, 14 Pc; Solder Aid Tool, Fork & Hook, 8"; Solder Aid Tool, Reamer; Solder Wick; Solder, 60/40; Spring Hook, Pull & Lift: Stripper, 5 In 1 Tool: Stripper, Wire w/Cutter: Tweezer, Filament Holder; Tweezer, Self-Locking; Utility Box; Wrench Set, Hex & Spline; Wrench Set, Ignition.*

Model No.	Description	Qty.	6" Tool Kit Only 8601-6	6" Flyweight Case Only 86-6-2
8601-6	*Voice/Data/*	1-3	$590.00	$285.00
	Network Tech Mgr.	4-9	$580.00	$275.00
	Tool Kit - 114 pc	10+	$565.00	$259.00

Techni-Tool Exclusives!

Voice/Data/Network Field Service Kit - 46 pc

Designed to meet the demands of Voice/Data/Network Field Service calls, we have placed our most popular datacom tools in our new *Tec-Tuff*® DuPont Cordura® Plus case. Designed by Techni-Tool, the case features a unique fold out Techni Tool design, with industrial Velcro® closures on all sides, assuring a complete seal when closed. Reverse side has spots for your Leatherman Tool pens, note pad and business cards. Other features include: a padded back pocket to protect and hold your laptop; a cell phone Velcro®-close pocket; formed corners; padded comfort handle, and more.

Tools contained in your kit: *Alignment Tool, 6"; AWL Scratch; Blades: Phillips, #1, #2; 4" Extension, Slotted 1/4 5/16", Torx T6, T8; Case, Millennium Black; Electrician's Scissor; Handle, Regular; Hemostat, Straight; Impact Tool W/66 Blade; Knife, Electrician's Locking; Magnetic pocket Retrieving Tool; Mini-Mag Flashlight; Mirror, Inspection; Nutdrivers: Hex, 5/16", 1/2", 3/16", 1/4"; Plier, Bent Chain Nose, Groove Joint, Lineman's, Long Nose, Micro-Shear Oval, Rule, Inch & Decimal; Nylon Probe Pic, Insulated; Screwdrivers: Slotted 1/4" x 4", 1/4" x 6", 3/16" x 6", 1/4 Stubby Slotted, 5/16 x 1-1/4 Screwdriver, Phillips: #1 3-1/16 x 1-7/16, 3/16 x 6, #2 1/4 x 1-5/16; Screwstarter Double End; Spring Hook, Pull & Lift; Telephone Line Tester; Ties, Type T18; Tone & Probe Kit, Basic Tweezer, Coated Handle Filament Holder; Wire Stripper 22-24G.; Wrench, Can w/stripper*

Model No.	Description	Qty.	Tool Kit 9960	*Tec-Tuff*® Millennium Case Only 336CA268
9960	*Voice/Data/*	1-3	$515.00	$89.00
	Network Field	4-9	$499.00	$79.00
	Service *Kit - 46 pc*	10+	$480.00	$70.00

TEC-TUFF

Networkers Tool Kit - 52 pc

If you're involved in networking, line verification, general telephone and security installation, then choose this tool kit containing the 52 top quality tools you'll use the most. Housed in a rugged DuPont Cordura® Plus case. It has comfortable, padded, nylon web handles, three outside pockets and one 10" x 12" and two 6-1/4" x 9-1/2" gusseted sides.
Color: Black. 18.5"L x 11"W x 5"D. (I.D.) **(USA)**

Tools contained in your kit: *Adapter, w/Modular Jack; Battery, AA; Blade, #11; Box, Parts; Case, Tool/Office Tote; Extension, 4"; Flashlight, Penlight; Gender Adapter, 25 Pin Female/Female Gender Adapter, 25 Pin Male/Male; Handle, Regular; Hex Key Set, Fold-Up; Insertion/Extraction Tool; Key Cap Remover; Knife, w/Safety Cap; Nutdriver, 3/16", 5/16", 1/4"; Hex; Plier, Diagonal Plier, Locking, Plier, Long Chain Nose; Plier, Midget Chain Nose; Plier, Oval Head; Probe Communication Wiring; Punch Down Tool; Scissor, Electrician's; Screwdriver, Blades, Phillips #0, #1; Screwdriver, Blades, Slotted, 1/8", 3/16", 1/4"; Screwdriver, Blades,Torx T10, T15, T20, T25; Screwdriver, Miniature; Screwdriver, Phillips #0; Screwdriver Slotted 3/32" x 2"; Screwstarter Blades; Double End Slotted & Phillips; Scriber Pocket; Magnet; Soldapullt; Solder, 60/40; Soldering Iron, 25W; Stripper Wire w/Cutter; Tester, GFI Circuit Tester, Telecheck Modular; Wrench Adjustable, 6*

Model No.	Description	Qty.	Tool Kit 9601	Case Only 7002
9601	*Networkers*	1-3	$355.00	$110.00
	Tool	4-9	$345.00	$99.00
	Kit - 52 pc	10+	$330.00	$90.00

TEC-TUFF

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Design-A-Kit® · Convert-A-Kit® · Pick-A-Kit®
We customize kits to meet your needs.

ESS Installation Tool Kit - 69 pc

Now, all the convenience of a full size tool kit packed into a soft sided case. We have taken the most popular tools and packaged them in the new DuPont Cordura® Plus Nylon case with sewn-in pallets. Case measures 18"L x 13"W x 3"D (I.D.). One side of the case has two outside gusseted pockets, one 10-1/2"W x 12"H, and one 6-1/4"W x 12"H. The other side of the case has a 18-1/2"L x 7-1/2"W open pocket for incidental papers. The tool assortment can be varied to suit your needs. *(Options A, B and C not included)* **(USA)**

Tools Contained in you kit: *Alignment Kit, 6"; Blades, Allen Hex .050", 1/16", 5/64", 7/64", 9/64", 3/16"; Blades, Allen Hex 3/32" x 4", 1/8" x 4", 5/32" x 4"; Blades, Phillips #1 & #2; Blades, Slotted 1/8" & 3/16"; 1/4" Screwdriver; Burnisher, Contact: Case, Zipper w/Sewn Pallets, Black; Extension, 4"; Gauge, Thickness; Hammer, Ball Pein; Handle, Regular; Handle, Tee; Hemostat, Straight; Knife, Electrician's; Mirror; Nutdrivers, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" Hex; Oiler; Pliers: Long Chain Nose, Long Nose, Micro-Shear, Oval Head, Retaining Ring, 6" Internal/External; Punch, Center, 3/32"; Punch, Drive Pin 1/16"; Punch, Pin, 1/8"; Rule; Scissor; Scratch Awl; Screwdriver, Offset 5/32" Slotted Blade; Screwdriver, Phillips #0 & 2; Screwdriver, Set Slotted .025"- 100" 7 pc.; Screwdriver, Slotted 1/4" Stubby; Screwdrivers, Slotted 3/32" x 2", 1/8" x 8", 5/32" x 4", 5/16" x 6" Blade; Screwstarter, 3/16" Blade 6-1/2" OAL; Solder, Pocket-Pak; Soldering Iron, 25W; Spring Hook, Pull & Lift; Stripper, Wire w/Cutter; Tweezers, Self-locking; Wrench, Adjustable, 6".*

Model No.	Description	Qty.	Tool Kit Only 8891	A. Harris TS19 Butt Set 300TE019	B. Punch Down Tool 767TE714	C. Can Wrench 479TE216	*Tec-Tuff®* Black Case Only 658CA670	*Tec-Tuff®* Burgundy Case Only 658CA672	*Tec-Tuff®* Teal Case Only 658CA674
8891	*ESS Installation*	1-3	$330.00	$137.00	$19.95	$9.85	$110.00	$110.00	$110.00
	Tool Kit - 69 pc	4-9	$319.00	$134.00	$17.95	$9.25	$99.00	$99.00	$99.00
		10+	$299.00	$131.00	$15.95	$8.45	$84.00	$84.00	$84.00

Economy Electronics Kit - 75 pc

Don't let the size of this kit fool you. This kit is loaded with first quality tools from Cooper, AMP and Xcelite on two exclusive Tec-Tuff®, hand-sewn, rugged pallets. Your tools are housed in a special blow-molded, double-layer Polyethelene case to withstand every day use and abuse. 20"L x 15-1/2"W x 5"D. (I.D.) **(USA)**

Tools contained in your kit: *Blade, Phillips #0, #1 Screwdriver; Blade, Slotted 3/16", 1/4", 1/8" – 4" OAL Screwdriver; Case, Blow-Molded with Economy Pallets; Crimper, Super Champ; Extension, 4"; Flashlight, Penlight, Disposable; Handle, Regular; Iron, Soldering, 25w, 1/8" Diam. Tip; Key, Hex Gorilla Grip Inch Set 9 pc; Knife, #1 w/Safety Cap; Knife, Electricians Locking; Luggage Tag; Mirror, Fiberglass; Nutdriver, 1/2", 1/4 3/16", 3/8", 5/16", 7/16", 7/32", 9/32", 11/32" Hex; Plier, Diagonal, Straight Jaw Flush 4-1/2" OAL; Plier, Groove Joint, 7"; Plier, Long Nose With Cutter 4-3/4" OAL; Plier, Subminiature Long-Nose,Smooth Jaw; Plier Vise-Grip 4" w/Curved Jaws & Wire Cutter; Scissor, Electricians; Screwdriver, Offset, Slot #2-#6, 3" OAL; Screwdriver, Phillips #0 1/8" x 2", 4-5/8" OAL; Screwdriver, Slotted 3/32 x 2"; Socket Set, 1/4" Drive 14 pc. Solder, 60/40 Pocket-Pak .031" Tape Measure, 1/4" x 10' 32nds To 12", Then 1/16"; Tweezer, Slotted Filament Holder, Angle Tip, 5-1/2"; Wrench Set, Torx, Fold-Up 7 pc, T-6 to T-20; Wrenches, Adjustable, 4" and 8"; Wrench Set, Ignition, 7/32" to 7/16" - 8pcs*

Model No.	Description	Qty.	Tool Kit Only 9801	*Tec-Tuff®* Case & Pallets Only 758CA200
9801	*Economy*	1-3	$295.00	$65.00
	Electronics	4-9	$285.00	$57.00
	Tool Kit - 75 pc	10+	$270.00	$55.00

Techni-Tool Exclusives!

Comm/Net Manager Tool Kit - 273 pc

Communications and network installations and management is serious business, and not having the tools you need at your finger tips is no joking matter. This 273-piece tool kit is a specifically designed and fully-packed kit, includes the most requested security-related tools and bits a communications technician might need in the field. The black DuPont Cordura® Plus Nylon case has 43 useful pockets on one side and a built-in clipboard for important documents on the other. The middle compartment has ample room for notebooks or a laptop computer and features dual pull handles with heavy-duty zippers. Padded web handles and "D" rings complete your case. Dimensions: 18"L x 12"W x 7"D. (I.D.) **(USA)**

Black
Burgundy
Gray

TEC-TUFF

Tools contained in your kit: *Adapter Set. 35 pc. Metric: Balldriver Set. .050-5/16" L-Wrench. 12 pc: Balldriver Set. 1.5-5mm L-Wrench. 6 pc: Bits. Security. 34 pc w/Holder: Bit. Set. External Line Head. 6 pc: Bit. Set. Internal Line Head. 5 pc: Brush. Tooth Style. Brass 1/2" Bristle: Bottle. 8 oz.: Box. Parts: Brush. Sash: Burnisher. Contact. .007 Blades: Case. Zipper. Black Cordura: Chem-Wik. .075" x 5'. Green. lite: Dip Clip. 16 pin: Extractor. Lamp: Extractor. PLCC. Eyeshield. Duraguard. Clear: Flashlight Mighty Lite. Submersible: File Set. 4 pc Gauge. Feeler: Heat Sink: Hemostat. Curved Lock-Type: Hex Keys. Metric. 1.5-12mm. 10 pk.: Insertion/Extraction Tool: Key Cap Remover. Knife. #1 with Safety Guard. Knife. Retractable. 3 position: Mat. ESD Work Surface Kit: Mirror. Inspection. Telescopic: Nutstarter. Sizes 4-40 to G-2: Patch Cords. Mimgrabber Each End. Black & Red: Plier. Crimp Tool: Plier. Diagonal. Heavy-Duty: Plier. Diagonal. Straight Jaw Flush: Plier. Locking Long Nose. Wire Cutter: Plier. Long Nose with Cutter: Plier. Needle Nose. Smooth Jaws. Plier. Snap Ring. Internal/External: Plier. Groove Joint: Probe. Communication Wiring: Puller. Fuse. Midget. Non-Slip: Retrieving Tool. Magnetic: Roll Kit. Rule: Scissor. Electrician's: Screwdriver. 12-in-1 Screwdriver. Cordless. Rev: Screwdriver. Miniature Potentiometer Screwdriver. Offset. Slotted #2-#6: Screwdriver. Phillips #0 with Pocket Clip: Screwdriver. Set. Slotted. .025"-.100". 7 pc: Screwstarter. Double-ended Slotted & Phillips: Solder Aid Tool. Brush & Forked Tip: Solder Iron. 25W: Solder. Pocket-Pak: Spring Hook. Pull & Lift: Stripper. Wire w/Dial & Spring: Tape. Electrical: Terminal Kit. 81 pc.: Tone/Probe Kit: Tweezer. Self-Locking: Vise. Mini Vacu: Voltage Detector. DC: Wrench. Adjustable. 6": Wrench. CATV Security. F&CF Connectors: Wrench Set. Combo with Pouch. 10 pc: Wrench Set. OE. Metric. 5.5mm-11mm. 7 pc.*

Techni-Tool Exclusives!

Model No.	Description	Qty.	Tool Kit 9760	*Tec-Tuff®* Black Case Only 336CA9501	*Tec-Tuff®* Burgundy Case Only 336CA9505	*Tec-Tuff®* Gray Case Only 336CA9503
9760	*Comm/Net*	1-3	$1025.00	$125.00	$125.00	$125.00
	Manager	4-9	$999.00	$115.00	$115.00	$115.00
	Tool Kit - 273 pc	10+	$979.00	$99.00	$99.00	$99.00

Lan Supervisor Installation Zip Kit - 27 pc

Use this rugged kit inside central offices or outside in vaults. The necessities are available at your fingertips! Housed in a rugged DuPont Cordura® Plus Nylon Zip Case, this kit will withstand the constant abuse of the service technician. Tools shown below enable you to service and install virtually any type of communications and data transfer system, or configure them to meet your needs. *(TS21 Butt Set and Range Master II not included)* 13"L x 10-1/2"W x 3"D (I.D.) **(USA)**

Tools contained in your kit: *Adjuster. Spring. Pull: Case. Brown Cordura Zip: Extractor. Lamp: Hex Key Set. Fold-Up. 9 pc. .050" - 3/16": Knife. Electrician's: Mirror. Nutdriver. 1/4" & 5/16" Hex: Plier. Diagonal Tapered. Plier. Long Chain Nose: Probe. Communication Wiring: Punch-Down Tool. Scissor. Electrician's: Screwdrivers. 4-in-1. 2 Slotted & 2 Phillips Screwdriver. Slotted 3/32" x 2" Blade: Unwrap Tool. Manual. Type "A" Wire-Wrap Tool: Wrench. Adj. 4": Wrench. Can w/Stripper*

"Cordura" Plus is a registered trademark of DuPont."

TEC-TUFF

Model No.	Description	Qty.	Tool Kit Only 7624-A	A Harris TS21 Butt Set 300TE087	B Range Master II 355ME250	*Tec-Tuff®* Case Only 336CA618
7624-A	*Lan Supervisor*	1-3	$260.00	$269.35	$79.00	$80.00
	Installation Zip	4-9	$249.00	$265.00	$74.00	$70.00
	Tool Kit - 27 pc	10+	$236.00	$263.00	$67.00	$60.00

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Phone: 1-800-832-4866
or 1-610-941-2400

Datacom ISDN Installers' Tool Kit - 40 pc

A unique, dual-pocket zip case that offers a tool-tote and more! Augmented by a portable secretary with a clipboard clamp, and a lift-out, specially designed pallet with two holders for standard parts & accessories boxes. You can double duty the case according to your needs. A Black DuPont Cordura® Plus Nylon with soft Web handles, & measures 17-1/2"L x 10-1/2"W x 4"D (I.D.). It has three exterior storage pockets with adjustable flaps. Two side gusseted pockets measure 7-1/2"L x 10-1/2"W. The other side of the case has a large 15"L x 10-1/2"W pocket. *(Options A, B and C not included)* **(USA)**

Tools contained in your kit: *Blades. Phillips #0, #1, #2; Screwdriver Blades. Slotted 1/8", 3/16", 1/4", 5/16"; Screwdriver Blade. Torx T15, Screwdriver; Case. w/Slip-Out Box Holder; Extension, 4"; Handle. Regular; Mirror; Nutdrivers. 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" Hex; Nutstarter, Sizes 4-40 To 5/16"; Plier. Diagonal Tapered; Plier. Ignition. Midget Slip Joint; Plier. Micro-Shear; Plier. Midget Chain Nose; Plier. Midget Oval Head; Screwdriver. Phillips #0 w/Pocket Clip; Screwdriver. Phillips #1; Screwdriver. Slotted 1/4" Stubby; Screwdrivers. Slotted 3/32" x 2", 1/8" x 8", 3/16" x 6", 1/4" x 4", 5/16" x 6" Blade Screwstarter. Slotted 5-5/8" w/Magnet; Solder. Pocket-Pak; Soldering Iron. 25W; Stripper. Wire; Wrench. Adjustable, 6".*
"Cordura® Plus is a registered trademark of DuPont."

Model No.	Description	Qty.	Tool Kit Only 7675	A. Lil' Buttie Pro Butt Set 772TL200	B. Impact Tool 300TE202	C. Can Wrench 3/8" & 7/16" Hex 479TE216	RJ45/11 Telcom Crimper 702ST301	*Tec-Tuff®* Case Only 238CA888
7675	*Datacom ISDN*	1-3	$270.00	$179.95	$62.50	$9.85	$41.15	$119.00
	Installer's	4-9	$263.00	$169.00	$60.00	$9.25	$39.50	$109.00
	Tool Kit - 40 pc	10+	$254.00	$159.00	$59.00	$8.45	$35.00	$99.00

Lan Manager Tool Kit - 89 pc

Lan Supervisors or Managers who fill in for field service find this kit a life saver! Complete with all the tools necessary to perform repairs on most LAN equipment, the dual case openings let you keep your tools separate and secure. The generous middle compartment has ample storage space for anything from notebooks to a lap top computer. The Black DuPont Cordura® Plus Nylon case has 43 useful pockets on the one side and a built-in clipboard for papers on the other. The middle compartment has dual pull handles with heavy-duty zippers for easy opening. The case also has a flap pocket for a multimeter and a pouch for small items. Padded web handles and "D" rings for a shoulder strap complete this unique case. Dims: 18"L x 12"W x 8"D. (I.D.) **(USA)**

Tools contained in your kit: *Balldriver Set. .050-5/16 L-Wrench. 12 Pc: Blades. Screw- Driver Torx T10, T15; Blades. Screwdriver Phillips #1, #2; Blades. Screwdriver Slotted. 1/8", 5/16", 1/4". Case. Zipper. Black Cordura: Crimper. Super Champ; Extension. 4"; Hammer. Ball Pein. 4oz.; Handle. Reg. Hemostat. Straight Lock Type; Insertion/Extraction Tool For Contacts; Knife. #1 w/Safety Cap & 5/pk Blade Asst.; Mirror. Inspection; Multimeter. Digital. Pocket Size; Nutdrivers, Hex 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"; Plier. Locking. w/Wire Cutter; Plier. Long Chain Nose-Serrated Plier. Midget Diagonal Head; Rule. Inch-Metric-Decimal Rigid Stainless Steel. 6"; Scissor. Electrician's; Screwdriver. 12-In-1 (Six Double-ended Bits); Screwdriver. Offset. Slot 1/4" Screwdriver, Phillips #0 w/Pocket Clip; Screwdriver. Set Slotted .025"-.100" 7pc; Screwdrivers. Slotted 3/32 x 2", 5/32 x 4" Blade; Screwstarter. Double End Slotted & Phillips; Solder Wick. 2.5". Soldering Iron: Stripper. Wire W/Cutter; Tweezers. Filament Holder; Wrench Set. Combo. 10 pc Midget; Wrench. Adjustable. 4" & 8".*

Model No.	Description	Qty.	Tool Kit 9502	*Tec-Tuff®* Zip Case Only 336CA9501
9502	*Lan*	1-3	$380.00	$125.00
	Manager	4-9	$369.00	$115.00
	Tool Kit - 89 pc	10+	$354.00	$99.00

Datacom Engineer's Service Kit - 132 pc

Techni-Tool supplies Datacom engineers with the special tools they need to get a job done. Choose the options shown. or pick other items from our vast selection of Datacom tools, test equipment and accessories. This kit features: *Tec-Tuff*® Deluxe Classic case design; molded Polyethylene with reinforcing ribs; locks; molded-in feet to prevent tipping; two ball bearing lid stays; and two pallets. 17-3/4"L x 12-1/2"W x 8"D (I.D.). *(Options A, B, C and D not included)* **(USA)**

Tools contained in your kit: *Alignment Kit, 6"; Blade, Phillips #1 Screwdriver; Blade, Phillips #2 Screwdriver; Blades, Slotted 1/8", 3/16", 1/4"; Bottle, 4oz.; Box, Parts, 18 Compartments; Box, Parts, 24 Compartments; Brush, Machine Service; Brush, Solder; Burnisher, Contact, 3 pcs.; Calculator, Metric Case, I-Beam, with Wing Pallets; Dip Clip, 16 Pin, Std.; Dispenser, Wire; Extension, 4"; Flashlight, Penlight Gauge, Thickness; Hacksaw, Mini, 8-3/4" OAL; Hammer, Ball Pein, 4 Oz.; Handle, Regular; Handle, Tee, Hemostat, Straight, Inserter/Extractor, 4-48 Pin; Knife, Electrician's, Knife, Level, Line & Surface, Mirror, Nutdrivers, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" Hex; Oiler; Patch Cord, Micrograbber, 36" Red & 36", Black; Plier, Diagonal Tapered; Plier, Groove Joint, 10"; Plier, Locking; Plier, Long Chain Nose, Plier, Micro-Shear, Plier, Retaining Ring, Plier, Short Chain Nose, Punch, Center, 3/32"; Punch, Drive Pin 1/16" 4"OAL; Punch, Pin, 1/8"; Rule; Scissor, Electrician's; Scratch Awl; Screwdriver, 2 in 1 Stubby 3/16" Slotted & #1 Phillips; Screwdriver, Phillips #0; Screwdriver, Phillips #0 w/Pocket Clip; Screwdriver, Set, Hex 9 pcs.; Screwdriver, Set, Offset Ratchet, 16/Set; Screwdriver, Set, Slotted .025"- 100" 7 pcs., Screwdrivers, 1/8" x 8" 3/32" x 2", 5/16" x 6", 5/32" x 4", Slotted Blade; Screwholder, Slotted 10"; Socket Set, 1/4" Drive, 14 pcs.; Solder Aid Tool, Fork & Hook; Solder Aid Tool, Reamer & Scraper; Solder Removal Tool; Solder Wick; Solder, Pocket-Pak; Soldering Iron, 25W; Spring Hook, Pull & Lift; Stripper, 5-in-1 Tool; Stripper, Wire w/Cutter; Tape Measure; Tweezer, Angular Filament Holder; Tweezer, Self-locking; Wire-Wrap, Manual, 30 AWG Strip/Unwrap Tool; Wrench Set, Ignition, 7/32" -7/16"; Wrench, Adjustable, 4" & 8"; Wrench, Torx Key Set, 6 pc*

Model No.	Description	Qty.	Tool Kit Only 9406	A. Ideal 10-Base-T Crimp Kit 462PL652	B. Harris "D" Blade Kit 300PR793	C. Fox & Hound Tester 790ME338	D. Harris Dracon All Weather TS21 Butt Set 300TE089	*Tec-Tuff*® Case & Pallets Only 336CA9405
9406	*Datacom*	1-3	$575.00	$206.80	$61.50	$73.00	$290.00	$160.00
	Engineer's	4-9	$564.00	$192.00	$59.00	$70.00	$285.00	$150.00
	Service Kit - 132 pc	10+	$551.00	$179.00	$56.00	$66.00	$279.00	$138.00

Hospital/Laboratory Kit - 140 pc

This 140-piece kit provides all the basic tools for preventive maintenance and safety checks to vital life saving equipment found in hospitals & laboratories. Nested in a *Tec-Tuff*® high density Polyethylene molded case. The special assortment of tools has been included for your convenience. Dim: 18"W x 13"H x 8"D (I.D.). **(USA)**

Tools contained in your kit: *Alignment kit, 6"-"k"; Battery, "D", (2); Blades, Allen Hex .050, 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16"; Blade, Phillips #1, #2 screwdriver; Blades, slotted 3/16", 1/4", 5/16" Screwdrivers; Brush, solder; Burnisher, contact heavy-duty; Burnishers, contact set of 3; Calculator, conversion 4"; Case, Tec-Tuff 2 pallets Polyethylene 18" x 13" x 8" I.D; Extension, 4"; File set, assorted, 3 pc. with handle File set, field service 12 pc; Flashlight, heavy duty; Gauge, thickness, .0015" .025"; 26 leaves; Hammer, ball pein, 4 oz.; Handle, regular, Handle tee, 3-1/2" x 1-5/8"; Heat sink, 2-5/8" OAL; Hemostat, curved, lock type, 5-1/2" OAL; Hemostat, straight lock type, 5-1/2" OAL; Iron, soldering, 25W; Knife Electricians' locking; Magnifier 5x; Mirror, inspection, plain; Nutdriver, 3/16", 7/32", 1/4" hex; Nutdriver, 5/16", 11/32", 3/8", 7/16", 1/2", 9/32 hex; Oiler, needle point; Plier, diagonal, oval head, 5" OAL; Plier, groove joint, 10"; Plier, locking-curved jaw 7" OAL, wire cutter; Plier, long nose w/cutter serrated, 5.5" OAL; Plier, long nose-serrated 5" OAL, spring; Plier, micro-shear, 5.11" OAL, flush, spring; Plier, retaining ring, 6" internal/external; Punch, center, solid; Punch, drive pin 1/16" 4" OAL; Punch, pin, 1/8"; Scissor, Electricians'; Scissor, 3-5/8" OAL Screwdriver, Offset, Slot #2-#6, 3" OAL; Screwdriver, Phillips #0, 1/8" x 2"; 4-5/8" OAL; #1, 3-1/16" x 1-7/16", 3-7/16" OAL; #2, 1/4" x 1-5/16", 3-3/8" OAL; Screwdriver, set slotted .025"-.100" 7pcs; Screwdriver, slotted 1/8" x 8" blade, 10-5/8" OAL; 3/32" x 2" blade, 4-1/4" OAL; 5/16" x 6" blade, 10-1/2" OAL; 5/32" x 4" blade, 6-5/8" OAL; Screwstarter, 3/16" blade 6-1/2" OAL; Socket set, 1/4" drive 14 pcs; Solder aid tools, Fork & Hook, 8"; Reamer & Scraper, 6.5" OAL; Solder wick; Solder, 60/40; Spring hook set, 8-pcs, SS; Stripper, 5 in 1 tool; Tweezer, filament holder 6" OAL; Wrench sets, Hex & Spline; Ignition, 7/32" - 7/16"; Wrench, adjustable, 4", 8*

Model No.	Description	Qty.	Tool Kit Only 7623-M	Case & Pallets Only 658CA974
7623-M	*Hospital*	1-3	$499.00	$155.00
	Laboratory Kit - 140 pc	4-9	$489.00	$144.00
		10+	$477.00	$138.00

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Datacom Service Tool Kit - 115 pc

Designed for the Datacom service engineer who needs to carry a full array of tools and spare parts during extended travel. The case features: ribs for extra strength and rigidity; an aluminum valance with full piano hinge; molded-in feet and drawbolt locks. Two removable tool pallets and built-in document pouch; dust seal; a padded, steel core handle for comfort. **(USA)**

Tools contained in your kit: *Alignment Tool Set (2 pc.): Allen/Spline Set (12 pc.); Anglo/Metric Calculator; Burnishers, Contact Set of 3; Center Punch 3/32"; Crimper/Stripper/Bolt Cutter, 5-in-1; Extension, 4" (Snap-in); Feeler Gauge, 26 Leaf; Flashlight, with two D Cell batteries; Hammer, 4 oz., Ball Pein; Handle for driver blades (Snap-in); Handle, "T" for driver blades (Snap-in) Holder, Straight Hemostat; Inspection Mirror; Knife, Electrician's; Magnetic Pick-Up Tool; Mini Phillips Screwdriver #0; Nutdrivers (Snap-in Blades) 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2" Oiler w/All-Purpose Lubricant; Parts Box, Small Std.; Parts Box, Large Std.; Pin Punch, 1/16", 1/8"; Pocket Magnifier; Polyethylene Case; Plier: Diagonal 5" Oval Head, C.N. 4-3/4", L.N. w/cutter, Micro-Shear Plier, Rib Joint 10"; Retaining Ring Plier Int/Ext.; Rule 6" with gauge; Scissors, Electrician's; Scratch Awl; Screwdriver: Phillips #0, Phillips, (Snap-in) #1, #2, Phillips #2 Stubby, (Snap-in Blades) 1/8", 3/16", 1/4", Reg. 5/16" x 6", 5/32" x 4", 1/8" x 8", 1/4" x 1" Stubby Screwdriver Set, Jewelers' .025" to .100", Offset, Screwholders (2); Short 3"; Solder Iron, 25 watt; Solder Aids (2); Solder 60/40 .031"; Solder Brushes; Solder Wick Spring Hook, Push-Pull; Tweezers; Reverse-Action; Wire Stripper; Wrenches, Adjustable 4", 8" Wrench Set OE Ignition (8 piece); Socket Set, 1/4" Drive Std.*

Techni-Tool Exclusives!

Model No.	Description	Qty.	6" Tool Kit 9422	8" Tool Kit 9424	*Tec-Tuff®* 6" Case & Pallets 336CA9415	*Tec-Tuff®* 8" Case & Pallets 336CA9417
9422/9424	*Datacom Service*	1-3	$445.00	$450.00	$140.00	$145.00
	Tool Kit - 115 pc	4-9	$434.00	$440.00	$130.00	$135.00
		10+	$426.00	$430.00	$119.00	$124.00

Lineman Kit - 14 pc

Slip the *Tec-Tuff®* Lineman Kit on your work belt and your ready for a crawl space, ladder, or running line. The *Tec-Tuff®* Lineman Kit places our most requested basic communications/datacom installation tools from Crescent and Harris, right at your fingertips. Your tools are protected by a ballistic nylon pouch. Butt set and can wrench optional. *(Option A is not included)*

Tools contained in your kit: *Lineman's Plier; Long Chain Plier, Diagonal Plier, Scratch Awl; Screwdrivers: 1/4 x 8-3/8", 1/4 x 6"; Phillips Screwdrivers: #1, #2; Nutdriver: 3/16", 1/4"; Impact Tool w/ 66 blade; Communication Probe; Tool Pouch; Electricians Knife.*

Model No.	Description	Qty.	Tool Kit 9903	A. Harris TS30 Butt Set 300TE809
9903	*Lineman Kit*	1-3	$199.00	$202.50
	14 pc	4-9	$189.00	$196.00
		10+	$175.00	$191.00

Cabling Pouch

This Cabling Kit is designed to carry your most used cabling tools from your toner, probe, cable knife, punch down tool, and scissors. Includes a loop for your test set and a removable parts pouch. Fits belt up to 5" wide.
(Tools not included)

No. 666AC750 Cabling Pouch $33.00
No. 300TE809 Harris TS30 Test Set $202.50
No.666TE801 Premium Tone and Probe Kit $159.00
No. 462TE486 Comfort Grip Punchdown Tool $54.55
No. 272SC050 Electricians' Scissors $10.75
No. 623ST055 Tec-Tuff® Cable Knife $5.95

LAN/WAN Engineers Tool Kit - 69 pc

This kit includes 69 tools picked for the special needs of the master Lan/Wan engineer required to install digital communication systems. This black DuPont Cordura® Plus case features two interior sections and three exterior pockets to keep all your equipment safe and secure. The organized tool pockets ensure that the tools you want to use are at your fingertips as you go from one job site to another. Dimensions: 16"L x 12"W x 5"D. (I.D.) *(Options A and B not included)* **(USA)**

Tools contained in your kit: *Adapter, with Modular Jack on each end: Alignment Tool, 11"; Battery, AA; Blade, #11, Sharp Angle, 5/pk.; Blade, Phillips, #0 & #1 Screwdriver; Blade, Slotted, 1/8" & 1/4" Screwdriver; Blade, Torx T10 & T15, Screwdriver; Box, Parts; Cable Ties, 100/pk; Case, Black Cordura; Crimper, Super Champ; Extension; Flashlight, Penlight; Gender Adapter, 25 Pin Female/Female; Gender Adapter, 25 Pin Male/Male; Hex Key Set, 8 pc; Insertion/Extraction Tool; Knife, #1 with Safety Cap; Knife, Electrician's; Micropatch, Male to Female; Mirror, Fiberglass; Modular Plug Hand; Nutdriver, 3/16", 1/4", 5/16", Hex; Plier, Diagonal, Oval Head; Plier, Diagonal, Oval, Semi-Flush; Plier, Diagonal, Tapered, Flush; Plier, Ignition, Midget; Plier, Locking, Long Nose, Wire Cutter; Plier, Locking with Wire Cutter; Plier, Long Nose, Side Cut; Plier, Long Nose with Cutter; Probe, Communication Wiring; Punch Down Tool; Retrieving Tool, Magnetic; Scissor, Electrician's; Screwdriver, Phillips #0 with Pocket Clip; Handle, Screwdriver, Slotted 3/32x2" Screwdriver, Torx, 5 Bits, Magnetic; Screwstarter, Double-End, Slotted and Phillips; Solder Aid Tool, Brush & Scraper Tip; Solder, Pocket-Pak; Solder Wick, Anti-Static; Soldering Iron, 25W; Spring Hook, Pull & Lift; Stat-Gard, ESD Grounding System; Stripper, Wire with Cutter; Tester, Telecheck Modular Phone Line; Tweezer, Filament Holder; Wire Wrap, Manual, 30 AWG, Strip/Unwrap Tool; Wrench, Adjustable, 6"; Wrench Socket.*

Techni-Tool Exclusives!

Model No.	Description	Qty.	Tool Kit 9775	A. Tone Test 700/1300Hz 666TE020	B. Tone Probe Kit 666TE801	*Tec-Tuff®* Case Only 658CA008
9775	*LAN Master*	1-3	$665.00	$80.00	$159.00	$165.00
	Engineer's	4-9	$645.00	$75.00	$149.00	$154.00
	Tool Kit - 69 pc	10+	$630.00	$69.00	$139.00	$140.00

Fiber Optic Installers Kit - 25 pc

Each tool in this kit has been outfitted with a special assortment of our most popular fiber optic installation tools. Your *Tec-Tuff®* I-Beam® includes a specially designed pallet with special pockets for everything from No-Nick strippers to special Kevlar cutters and inspection light. The pre-cut foam bottom insert keeps your materials in place and accessible.

Tools contained in your kit: *Heat Shrink Tubing Kit; Vinyl Plastic Tape; Kimwipes; Wire Stripper; Mini Swab Foamtips; Diamond Tip Scribe; Wire Strippers: 16-26AWG, 150-200AWG; Long Nose Plier; 4-in-1 Screwdriver; Parts 4-1/2 x 2-3/4 x 1-1/8 Box; Inch & Decimal Rule; Wire Marker Dispenser; Cable Stripper; Butane Ultratorch; Ceramic Kevlar Scissors; Retractable Knife; I-Beam 18 x 13 x 8 Case; 4oz Bottle Alcohol; Disposable Techduster; Filament Holder Tweezer; Continuity Tester; Cable Ties; Luggage Tag*

Model No.	Description	Qty.	Tool Kit 9861
9861	*Fiber Optic*	1-3	$515.00
	Installers	4-9	$499.00
	Tool Kit - 25 pc	10+	$487.00

Broadcast Engineer's Kit - 80 pc

This kit is designed for the broadcast engineer. The tools augment CATV, Radio-2 way Communication & Networking installations. The Platt case features a comfort handle, interior partitions for test gear, recessed locks, two tool pallets in a rugged black high density-polyethylene Platt case. Feet bumpers are molded into the shell providing strength & protection to your tools & test gear. Dimensions: 18"W x 13"H x 6"D (I.D). **(USA)**

Tools Contained in Your Kit: *Awl, Scratch, 3-1/2 Blade w/Plastic Handle; Balldriver Set, 5/64-3/16; L-Wrench, 7 Pcs; Blade, Allen Hex .050, 1/16", 1/8", 3/16", 3/32", 5/32", 5/64", 7/64", 9/64"; 4" Blade; Brush, Sash; Case, w/2 Pallets; Extension, 4"; File Set, Assorted, 3 pc w/Handle; Flashlight, Disposable; Handle, Regular; Insertion/Extraction; Tool–Size 20 Contacts; Key Cap Remover, Knife, Quick Point; Level, Bulls Eye, 1-3/8"; Magnifier 5x, 1/2"; Nutdriver, 1/4", 1/2", 3/16", 3/8", 5/16", 7/16", 7/32", 9/32", 11/32" Hex; Oiler, Needle Point; Pliers: Locking Long Nose 6" OAL, Wire Cutter, Long Nose, 5-1/2" OAL, Serrated, Spring; Micro-Shear, 5.11" OAL, Flush, Spring, Retaining Ring Plier, 6" Internal/External; Retrieving Tool, Magnetic Pocket Telescopic; Rule, Inch & Decimal,Flex Ss, 6", w/Pocket Clip; Scissor, Straight 4-1/2" Lightweight Screwdriver: Phillips #0 w/Pocket Clip, 4-1/4" OAL, Phillips #1 3/16" x 3", 6 -5/8" OAL, Phillips #2 1/4" x 4", 8- 1/8" OAL, Phillips #2 1/4" x1 -5/16", 3-3/8" OAL, Slotted 1/4" Stubby, 3.25" OAL, 1/8" x 8", 10-5/8" OAL, 3/32" x 2", 4-1/4" OAL; 5/16" x 6", 10-1/2" OAL; 5/32" x 3" Blade, 5-5/8" OAL, Ratchet Offset Blade, 1/4" x #2 Phl, Set Slotted .025"- 100" 7pcs, Torx 5 Bits Magnetic, T15-T30 8" OAL Screwholder, Slotted 8" For 6-8-10-12 Screws 1/4"; Screwholder, Slotted 10" For #6-8-10-12 Screws; Spring Hook, Pull & Lift; Stripper, 5-In-1 Tool; Tape Measure, 1/4" x 6" 6mm x 6m; Tester, Gfi Circuit Ez Check Plus; Tweezer, Filament Holder 6" OAL; Wrench Set, 5.5mm-11mm; Wrench, Adj., 6" w/Cushion Grip*

Model No.	Description	Qty.	Tool Kit Only 8440	*Tec-Tuff®* Case Only 758CA946
8440	*Broadcast*	1-3	$410.00	$150.00
	Engineer's	4-9	$399.00	$140.00
	Kit - 80 pc	10+	$384.00	$129.00

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or 1-610-941-2400

Standard/Metric Shop-On-Wheels M.R.O. Kit - 187 pc

How often have you been in the field and reached for a tool, only to realize that the tools you need are back in the shop because you ran out of room in your case? Techni-Tool solves your problem with this combination Inch/Metric, general-purpose, electronics field service shop-on-wheels. Containing 187 of our most requested inch and metric version tools, you'd probably think there's no more room in the case, but you'd be wrong. There's more space in the bottom – to hold your meters, oscilloscopes and more. The case measures a huge 26"L x 15-1/2"W x 13-1/4"D (O.D.)/ 24-7/8"L x 14-1/2"W x 12-3/4"D (I.D.) and is made of rotationally-molded, dense polyethylene with: an anodized aluminum valance with latex o-ring gasket; built-in, cassette-type wheels; quick-release, metal, telescoping handle that locks in place open or closed; quarter-turn, latches. **(USA)**

TEC-TUFF

Ask about our Design-A-Kit™ program.

Tools contained in your kit: *Balldriver Set, .050-5/16" L-Wrench, 12 pc.; Balldriver Set, 1.5-10mm L-Wrench, 9 pc.; Battery, AAA, Energizer, 1.5V; Bit, Power Adapter, for 99 Series; Box, Parts, 12-1/4" x 6-1/8" x 1-1/2", 6 Compartments; Blade, Phillips #0, #1, #2, Screwdriver; Blade, Slotted, 1/8", 1/4", 5/16", 3/16", Screwdriver; Blade, Torx T6, T8, T10, T15, T20, T25, T27, T30, Screwdriver; Burnishers, Contact, (3); Calculator, Conversion; Case; Crimper, Super Champ; Extension, 4"; Flashlight, Penlight; Gauge, Feeler, .0015"-.025", 26 Leaves; Hammer, Ball Pein, 4 oz.; Handle, Regular; Handle, Tee, 3-1/2" x 1-5/8"; Blk; Hemostat, Straight Lock Type, 5-1/2" OAL; Key Cap Remover, for 3/4" Single-2.5" Triple Units; Knife, Electrician's; Knife, Retractable, 3 Position; Mirror, 7/8" Inspection; Nutdrivers, 5/16", 10mm, 11/32", 3/8", 7/16", 1/2", 4.5mm, 4mm, 5.5mm, 5mm, 3/16", 6mm, 7/32", 7mm, 1/4" 8mm, 9/32", 9mm Hex; Nutstarter, Sizes 4-40 to 5/16"; Oiler; Pallet Set; Plier, Diagonal, Oval Head, 5" OAL; Plier, Groove Joint, 10"; Plier, Long Nose with Cutter, Serrated, 5.5" OAL; Plier, Needle Nose, Extra Thin, Smooth Jaws, 5" OAL; Plier, Slip Joint, 8" OAL, Chrome; Plier, Retaining Ring, 6" Internal/External; Plier, Vise-Grip, 4" with Curved Jaws and Wire Cutter; Punch, Center, 3/32"; Punch, Drive Pin, 1/16", 4" OAL; Punch, Pin 1/8"; Rule, Inch-Metric-Decimal, Rigid Stainless Steel, 6" OAL; Scissors, Electrician's; Scratch Awl, 6.5" OAL; Screwdriver, Miniature Potentiometer, 4.94" OAL; Screwdriver, Phillips #0 with Pocket Clip, 4-1/4" OAL; Screwdriver, Phillips #1, 3-1/16" x 1-7/16", 3/16" x 6"; Screwdriver, Phillips #2, 1/4" x 1-5/16", 1/4" x 4" Blade; Screwdrivers, Slotted, 1/4" x 4", 1/8" x 4", 1/8" x 8", 3/16" x 6", 3/32" x 2", 5/16" x 8", 5/32" x 4"; Screwdriver, Slotted, 1/4" Stubby, 3.25" OAL; Screwdriver Set, Slotted, .025"-.100", 7 pc.; Screwstarter, Double-End, Slotted and Phillips; Scribe, Machinist's, 2 Pt., 8" OAL; Solder, 60/40, Pocket-Pak; Soldering Iron, 25W, Marksman, 1/8" dia. Tip, Socket Set, 50 pc.; Solder Wick, Anti-Static, 2.5'; Spring Hook, Pull & Lift; Stripper, Wire with Cutter, to 10 AWG Solid/Stranded; Tape Measure, 1/2" x 10', 13mm x 3m; Tweezer, Filament Holder, 6" OAL; Tweezer, Self-Locking, Steel-Nickel, 4-3/4" OAL; Wrench, Adjustable, 4" & 8", Chrome with Cushion Grip; Wrench Set OE, Metric, 5.5mm-11mm; Wrench Set, Ignition, 7/32" Through 7/16", Pouch*

Model No.	Description	Qty.	Tool Kit 9708	Case & Pallets 758CA708	Case Only Foam Filled 758CA712
9708	*Standard/Metric*	1-3	$855.00	$350.00	$360.00
	Shop-On-Wheels	4-9	$845.00	$339.00	$349.00
	Kit - 187 pc	10+	$829.00	$328.00	$338.00

Techni-Tool Exclusives!

TEC-TUFF
WHEELY™ CASE

Built for the long haul. Engineered for the field service technician. Our Tec-Tuff Wheely™ case design is rugged enough to securely hold your tools, while protecting your sensitive test instruments.

Our Tec-Tuff® Wheely™ case is a high-density, rotationally-molded polyethylene to give you a case that won't sag in the center or punch through at the corners. The case features: a heavy-gauge, aluminum valance; four 2" replaceable, built-in, cassette-type sealed ball bearing wheels; full-length piano hinge; quick-release metal telescoping handle that locks into place in extended or closed positions; two keyed Franzen latches; three tumbler combination lock; bungee cords with "D" ring; comfort padded handle; three-pallet deep case construction; and document pocket in lid.

Plus, Tec-Tuff® Wheely™ cases are warranted against defects in materials and workmanship for three full years on the case shell, or we will replace it; tool pallets have a full one-year warranty; latches or handles have a one-year warranty - all from date of purchase. Like any product, your Tec-Tuff® Wheely™ is not indestructible. Our warranty does not cover damage that may result from abuse, or normal use.

Tools contained in your kit: *Balldriver Set: .050"-5/16" L-Wrench. 12 pcs.; Balldriver Set, 1.5-5mm L-Wrench, 6 pcs.; Batteries "AA" (2); Blade, Slotted, 5/16"; Screwdriver; Brush, Bristle Cleaning; Brush, Solder; Burnisher, Contact; Case, Roto-Tec, w/pallets; Extension, 4"; File Set, Assorted, 3 pc. w/Handle, Flashlight, Penlight; Gauge, Feeler; Hacksaw, Mini; Hammer, Ball Pein; Handle, Regular; Hemostat, Straight Key Cap Remover; Knife, #1 w/Safety Cap; Knife, Electrician's; Mirror; Nutdriver; Blades, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"; Set 3-10mm 11 pcs.; Midget; Nutstarter, Sizes 4-40 to 5/16"; Oiler, Punch Center 3/32"; Pliers: Diagonal Oval Head, Diagonal Tapered, Diagonal, Groove Joint, 7", Groove Joint 10", Locking, Long Nose Serrated, Long Nose w/Cutter Serrated, Snap Ring-Internal External; Probe, Communication Wiring; Retrieving Tool; Rule; Scissor, Electrician's; Screwdriver Set: Offset Ratchet, 5 pcs., Mechanics, Phillips #0 w/Pocket Clip, Phillips #0, #1, #2, #2-Stubby, Set Slotted .025"-.100" 7pcs., Slotted 1/4" Stubby, Slotted 3/32" x 2", 1/8" x 3", 3/16" x 3", 5/16" x 6" Blade; Screwstarter; 3/16" Blade 6-1/2" OAL, Quickwedge, Double End Slotted & Phillips; Torx: T-10, T-15, T-20, T-25, T-27, T-30; Scribe, Machinist's, 2 Point; Socket Set, 1/4" Drive, 14 pcs.; Solder Aid Tool, Angled Reamer & Forked; Solder Removal Tool Solder, 60/40 Pocket-Pak; Solder Wick; Soldering Iron, 25W; Spring Hook, Pull & Lift; Stripper; 5-In-1 Tool Wire w/Cutter; Tweezers, Self Locking, Wrench Set; Ignition, 7/32" - 7/16" 8 pcs.; Torx, Fold-Up T-6 to T-20 Wrench, Adjustable 4" & 6"*

Deluxe Electronics Engineer Wheely™ Kit - 143 pc

The tools in this kit have been specially assembled to help you work with a wide range of MRO applications. Your complete tool kit with swing-out pallets and the tool assortment *(shown above)*. 17-3/4"L x 14-1/2"W x 9"D. (I.D.) Case stands 41" with handle extended. **(USA)**

Model No.	Description	Qty.	Tool Kit Granite 9434	Tool Kit Black 9898	Granite Case & Pallets Only 758CA9434	Black Case & Pallets Only 758CA9834	Black Foam Filled Case 624CA096	Granite Foam Filled Case 624CA910
9434/9898	*Deluxe Electronics*	1-3	$699.00	$699.00	$295.00	$295.00	$235.00	$235.00
	Engineer Wheely™	4-9	$685.00	$685.00	$284.00	$284.00	$222.00	$222.00
	143 pc	10+	$669.00	$669.00	$269.00	$269.00	$210.00	$210.00

Techni-Tool Exclusives!

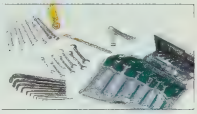
Premium Electronic Technician Tool Kit - 111 pc

Our Electronic Technician Tool Kit has just gotten better! We've taken our best selling field service kit (see page 22) and place it into our new rotationally-molded dense polyethylene case, featuring a padded handle and quick-release metal telescoping handle wheeled case.
Inside Case dimensions: 17-3/4" x 12-5/8" x 6-1/8" **(USA)**

Tools contained in your kit: Alignment Kit, 6 pc: Alignment Tools, 5" & 6" OAL: Blade, Phillips #1 & #2; Blade, Slotted, 1/8", 1/4", 3/16"; Box, Parts 12-1/4 x 6-1/8", 6 Compartments: Box, Parts 7 x 4 x 1-1/16"; 17 Compartments: Brush, Solder Burnishers; Contact Set: Calculator, Conversion, Case, Roto-Tec Prociassic, Extension, 4"; Flashlight, Heavy Duty, w Battery, D; Gauge, Thickness .0015 - .025; Hammer, Ball Pein, 4 oz.; Handle, Regular; Handle, Tee, 3-1/2" x 1-5/8"; Hemostat, Straight; Iron, Soldering, 25W; Knife, Electricians; Luggage Tag; Magnifier, 2.5X, Pocket; Mirror, Inspection, Plain; Nutdrivers, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" Hex; Oiler, Needle Point; Pallet Set; Plier, Diagonal, Oval 5" OAL; Plier, Groove Joint, 10"; Plier, Long Nose w/Cutter 5-1/2" OAL; Plier, Long Nose-Serrated 5" OAL; Plier, Micro-Shear 5.11" OAL; Plier, Retaining Ring, Internal/External 6"; Punch, Center; Punch, Drive Pin 1/16", 4" OAL; Punch, Pin, 1/8"; Rule, Inch & Wire Gauge; Scissor, Electricians; Scratch Awl, 6-1/2" OAL; Screwdriver, Round Blade, 5/16" x 6"; Screwdriver, Offset, Slot #2 - #6, 3" OAL; Screwdriver, Phillips #0 & #2"; Screwdriver, Set Slotted, .025 - .0100 7 pc; Screwdrivers, Slotted 1/8", 1/4", 3/32"; 5/32"; Screwstarter, 3/16" Blade, 6-1/2" OAL; Socket Set, 1/4" Drive, 14 pc; Solder Aid Tool, Fork & Hook; solder Aid tool Reamer & Scraper 6-1/2" OAL; Solder Wick; Solder, 60/40 Pocket-Pak; Spring Hook, Pull & Lift; Stripper, 5-In-1 Tool "K"; Stripper, Wire w/Cutter; Tweezer, Filament Holder; Tweezer, Self Locking; Wrench Set, Hex & Spline, 12 pc.; Wrench Set, Ignition; Wrench, Adjustable, 4" & 8"

Model No.	Description	Qty.	Tool Kit Only 2008	Case Only 758CA008
2008	*Premium*	1-3	$475.00	$185.00
	Electronic Technician	4-9	$459.00	$176.00
	Tool Kit - 111 pc	10+	$445.00	$159.00

Metric Conversion Kit - 50 pc



This kit contains 50 metric items: Handle Hex Wrench Set,1.27-6mm (10 pc.); Gauge, Feeler Ignition; Wrench Set, 7 pc.; Nutdrivers, 4mm, 4.5mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm; Rule, 6"; Metric Socket Set 1/4" Driver, 4mm-12mm (14 pc); Wrench Set Combo, 7 pc.

No. 7611 ..... **(1-3) $160.00 (4-9) $155.00 (10+) $147.00**

Complete Service Shop in a Case!

Maintenance and Repair Shop Service Tool Kit - 141 pc

The 141-piece tool assortment has been carefully selected to provide the best in first-quality tools for the maximum number of industrial electronics and applications. Packaged in our heavy-duty, rotationally-molded, polyethylene case with o-ring latex gasket, the tools are mounted on a swing-wing set of pallets (3). The Roto-Tec™ is constructed from rotationally-molded dense polyethylene providing thicker walls and corners for your case, with feet and bumpers molded in. Provided with 1/4 turn military-type latches, spring-loaded handle and a combination lock. The bottom of the case is 8" deep and will hold an oscilloscope and other test instruments. The case lid is 3" deep, and has a full length wide pocket for documents and manuals with two heavy-duty ball bearing lid stays for support. 17-3/4"L x 14-1/2"W x 11"D. *(Options A and B not included)* **(USA)**

**Foam is cut out to fit to hold a Fluke 90-series meters, a parts box, and other accessories.*

Shown with optional Fluke meter parts box and Weller Desoldering Gun.

***Tools contained in your kit:** Balldriver Set, .050-5/16 L-Wrench, 12 pcs.; Balldriver Set, 1.5-5mm L-Wrench, 6 pcs.; Batteries "AA" (2); Blade, #1 Assortment 5/pk.; Brush, Bristle Cleaning; Brush, Solder Burnisher, Contact; Case, Roto-Tec, 11" Black w/Pallets; File Set, Assorted, 3 pcs. w/Handle; Flashlight, Penlight 2 Cell; Gauge, Feeler; Hacksaw, Mini, 8-3/4" OAL Little-Nic; Hammer, Ball Pein, 4 Oz.; Handle, Regular; Hemostat, Straight; Key Cap Remover; Knife, #1; Knife, Electrician's; Mirror; Nutdrivers, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" Hex; Nutdriver Set, 3mm-10mm 11 pcs. Midget; Nutstarter, Sizes #4 to #40; Oiler; Plier, Diagonal Oval Head; Plier, Diagonal Tapered, 4" OAL; Plier, Groove Joint, 7"; Plier, Groove Joint, 10"; Plier, Locking; Plier, Long Nose w/Cutter Serreated; Plier, Long Nose Serreated; Plier, Snap Ring-Internal External; Probe, Communication; Punch, Center, 3/32"; Retrieving Tool, Magnetic; Rule; Scissor, Electrician's; Screwdriver Set, Offset Ratchet, 5 pcs.; Screwdriver Mechanics; Screwdriver, Phillips #0; Screwdriver, Phillips #0 - w/Pocket Clip; Screwdriver, Phillips #1; Screwdriver, Phillips #2 1/4" x 4"; 1/4" x 1-5/16"; Screwdriver, Set, Slotted .025" - .100" 7 pcs.; Screwdriver Slotted 1/4" Stubby; Screwdrivers, Slotted 1/8" x 3", 3/16" x 3" 3/32" x 2", 5/16" x 6"; Screwstarter, 3/16 Blade, 6-1/2" OAL, Quickwedge; Screwstarter, Dbl. End Slotted & Phillips; Screwstarters, Torx, T-10,T-15,T-20,T-25, T-27,T-30; Scribe, Machinist's; Socket Set, 1/4" Drive,14 pcs.; Solder Aid Tool, Angled Reamer & Forked; Solder Removal Tool; Solder Wick; Solder, 60/40 Pocket-Pak; Soldering Iron, 25W Spring Hook, Pull & Lift; Stripper, 5-in-1 Tool; Stripper, Wire w/Cutter; Tweezers, Self -locking; Wrench Set, Ignition, 7/32" - 7/16", Pouch 8 pcs.; Wrench Set, Torx, 7 pcs.; Wrench, Adjustable, 4" & 6*
Dimensions: 17-3/4"L x 14-1/2"W x 11"D (I.D.)

Shown Model No.	Description	Qty.	Tool Kit Only 9430	Pre-cut Foam Insert* 617AC010	A. Fluke 99B Scopometer 374ME099	B. Weller® Desoldering Gun 272SO121	*Tec-Tuff®* Case Only 758CA9430
9430	*Maintenance and*	1-3	$599.00	$75.00	$2195.00	$199.00	$195.00
	Repair Shop Service	4-9	$584.00	$68.00	$2110.00	$189.00	$185.00
	Tool Kit - 141 pc	10+	$569.00	$62.00	$2050.00	$175.00	$174.00

"Customize any kit to fit your need."

TEC-TUFF

Black

Granite

A

Tools contained in your kit: *Balldriver Set, .050-5/16 L-Wrench, 12 pcs.; Balldriver Set, 1.5-5mm L-Wrench, 6 pcs.; Battery "AA" (2); Blade, #1 Assortment 5/pk.; Blade, Slotted 5/16", Screwdriver; Brush, Bristle Cleaning; Brush, Solder; Burnisher, Contact; Case, Roto-Tec™, 11" Black w/Pallets; Extension, 4"; File Set, Assorted, 3 pcs. w/Handle; Flashlight, Penlight 2 Cell; Gauge, Feeler; Hacksaw, Mini, 8-3/4" OAL Little-Nic; Hammer, Ball Pein, 4 Oz.; Handle, Regular; Hemostat, Straight; Key Cap Remover; Knife, #1, Knife, Electrician's; Mirror; Nutdrivers, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" Hex, Nutdriver, Set, 3mm-10mm 11 pcs. Midget; Nutstarter, Sizes #4 to #40; Oiler; Plier, Diagonal Oval Head; Plier, Diagonal Tapered, 4" OAL; Plier, Groove Joint, 7" and 10"; Plier, Locking; Plier, Long Chain Nose; Plier, Long Chain Nose w/Cutter; Plier, Snap Ring-Internal External; Probe, Communication; Punch, Center, 3/32"; Retrieving Tool, Magnetic; Rule; Scissor, Electrician's; Screwdriver Set, Offset Ratchet, 5 pcs.; Screwdriver, Mechanics; Screwdriver, Phillips #0; Screwdriver, Phillips #0- w/Pocket Clip; Screwdriver, Phillips #1; Screwdriver, Phillips #2-1/4" x 4", 1/4" x 1-5/16"; Screwdriver, Set, Slotted .025"-.100" 7 pcs.; Screwdriver, Slotted 1/4" Stubby; Screwdrivers, Slotted 1/8" x 3", 3/16" x 3", 3/32" x 2", 5/16" x 6"; Screwstarter, 3/16" Blade 6-1/2" OAL, Quickwedge; Screwstarter, Dbl End Slotted & Phillips; Screwstarters, Torx, T-10,T-15, T-20,T-25,T-27,T-30; Scribe, Machinist's; Socket Set, 1/4" Drive,14 pcs.; Solder Aid Tool, Angled Reamer & Forked; Solder Removal Tool; Solder Wick; Solder, Pocket-Pak; Soldering Iron, 25W; Spring Hook, Pull & Lift; Stripper, 5-in-1 Tool; Stripper, Wire w/Cutter; Tweezers, Self-locking; Wrench Set, Ignition, 7/32" - 7/16", 8 pcs. Pouch; Wrench Set, Torx, 7 pcs.; Wrench, Adjustable, 4" & 6". Two-year warranty against defects and workmanship*

Electronic Service Master Tool Kit - 144 pc

The Electronic Service Master measures 17-3/4"L x 14-1/2"W x 9"D (I.D.). The bottom is 5" deep for test equipment and part boxes. The lid is 4" deep and contains a full-length, reinforced document pouch for manuals and paperwork. The textured, black, Roto-Tec™ rotationally-molded dense polyethylene case provides a rugged housing for your tools when coupled with the wide padded handle and keyed Franzen locking latches. *(Option A not included)* **(USA)**

Model No.	Description	Qty.	Black Tool Kit 9452	Granite Tool Kit 9454	A. Weller® Desoldering Gun 272SO121	Black Case Only 758CA9432	Granite Case Only 758CA454
9452/9454	*Electronic Service*	1-3	$600.00	$600.00	$199.00	$190.00	$190.00
	Master Tool Kit	4-9	$589.00	$589.00	$186.00	$180.00	$180.00
	144 pc	10+	$574.00	$574.00	$175.00	$166.00	$166.00

Techni-Tool Exclusives!

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Design-A-Kit® • Convert-A-Kit® Pick-A-Kit®

We customize kits to meet your needs.

PLATT

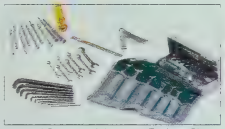
Tough Guy® Maintenance MRO Repair Wheeled ATA Tool Kit - 107 pc

The Tough Guy tool kit is a ruggedly molded, dense polyethylene and heavy-gauge aluminum construction. It features: unique vertical pallets; four 2" built-in cassette-type replaceable wheels; quick-release metal telescoping handle that locks into place when extended; recessed quarter-turn, spring-loaded latches and recessed handles; and three-tumbler combination lock. Dimensions: 19"L x 14.5"W x 9.5" D (I.D.) Color: Dark Blue, other colors available! **(USA)**

Tools contained in your kit: *Battery "D" (2); Case, Wheely with Pallets; Extension 4" & 7"; Flashlight, Penlight"D" Cell; Gauge, Thickness: Hacksaw, Mini; Hammer, Ball Pein; Handle, Regular; Handle, Tee 3-1/2 x 1-5/8" Black; Hemostat, Straight-Lock Type; Hex Key Set, Std.; Knife, Electrician's Locking; Knife, Retractable; Level, Bulls Eye; Nutdriver: 5/16", 11/32", 3/8", 1/2", 7/16"; Nutdriver, Hex, 3/16", 7/32", 1/4", 9/32"; Pliers, Groove Joint; Pliers, 10" Groove Joint; Pliers, Locking; Pliers, Needle Nose, Serrated; Pliers, Heavy-Duty; Pliers, Micro-Shear; Pliers, Lineman's; Pliers, Oval Head; Diagonal Cutter; Punch, Center; Punch, Drive Pin; Punch, Pin; Rule: Inch and Wire Gauge; Scissors, Electrician's; Scratch Awl; Offset, Slot, #2 - #6; Screwdriver, Phillips #0 w/Pocket Clip, #1, #2 - 1/4 x 4", #3; Screwdriver, Phillips #2 Stubby; Screwdriver, Slotted .025"-.100" 7 pcs; Screwdriver, Slotted 1/4" Stubby; Screwdriver, Slotted 3/32" x 2", 1/8" x 6", 5/32" x 4", 5/16" x 6 Blade; Screwholder, Slotted 3" for 6-8-10-12 Screws; Socket Set, 1/4 Drive, 19 pcs.; SolderWick, Anti-Static; Solder 60/40; Soldering Iron, 25W; Spring Hook, Pull & Lift; Stripper, 5-in-1 Tool; Stripper, Wire with Cutter; Tape, Vinyl, 3/4" x 66'; Tape Measure 1/2" x 10"; Tweezers, Filament Holder; Wrench Set, Ignition, 7/32"-7/168" 8 pcs.; Wrench Set, Torx, T-6 to T-20, 7 pcs; Wrench, Adjustable, 6" & 10".*

Add to Any Tool Kit!

Metric Conversion Kit - 50 pc



This kit contains 50 metric items: Handle Hex Wrench Set,1.27-6mm (10 pc.); Gauge, Feeler Ignition; Wrench Set, 7 pc.; Nutdrivers: 4mm, 4.5mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm; Rule, 6"; Metric Socket Set 1/4" Driver, 4mm-12mm (14 pc); Wrench Set Combo, 7 pc.

No. 7611..... (1-3) $160.00 (4-9) $155.00 (10+) $147.00

Model No.	Description	Qty.	Tool Kit Only 9605	Platt Blue Case & Pallets Only 658CA006
9605	*Tough Guy® Maintenance*	1-3	$710.00	$346.50
	Repair Wheeled ATA	4-9	$698.00	$335.00
	Tool Kit - 107 pc	10+	$676.00	$325.00

Watertight Maintenance and Repair Organization Tool Kit - 115 pc

Molded in tough, space-age, black structural resin, the lightweight tool case has a neoprene "O"-ring seal and purge valve that make the case watertight and airtight to 30 feet. The case also features locking flanges, massive multiple latches for security and a comfortable fold-down handle. Dim: 17-3/4"L x 12-3/4"W x 6-1/4"D. (I.D.) ***Five-Year Guarantee on Case.***

Tools contained in your kit: *Adjuster, Spring, Pull & Push; Alignment Kit; Battery, "AA" (2); Blades, Hex .050", 1/16", 1/8 5/64", 7/64", 9/64", 3/16", 3/32", 5/32"; Blades, Torx T6, T8, T10, T15, T20, T25; Screwdriver; Brush, Solder; Burnisher, Contact; Burnisher, Contact, Heavy-duty; Burnisher, Contact, 1/4"; Calculator, Conversion; Flashlight, Penlight; Gauge, Metric; Hammer, Ball Pein; Handle, Jr.; Handle, Regular; Hex Key Set, Metric, Short Arm; Knife, Electrician's; Mirror Nutdrivers, Hex, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"; Oiler; Pallet Set Case; Plier, Dia, Semi-Flush; Plier, Groove Joint; Plier, Long Chain Nose; Plier, Diagonal; Plier, Snap Ring-External & Internal; Punch, Center; Punch, Drive Pin; Punch, Pin; Rule, Inch & Wire Gauge; Scissor; Scratch Awl; Screwdriver, Offset, Slot #2-#6; Screwdriver, Phillips #2 Stubby; Screwdrivers, Phillips #0-W/Pocket Clip, #0-1/8" x 2", #1-3/16" x 3", #2-1/4" x 4"; Screwdriver, Set Slotted .025"-.100"; Screwdriver, Slotted, 1/4 Stubby; Screwdrivers, Slotted, 3/16 x 3", 1/8 x 8", 3/32 x 2", 1/4 x 4", 5/32 x 3", 5/16 x 6"; Blade, Screwstarter; Socket Set, 1/4" Drive; Solder Aid Tool, Fork & Hook; SolderWick, AntiStatic; Solder, 60/40; Soldering Iron, 25w; Stripper, 5-In-1 Tool; Stripper, Wire W/Cutter; Tool Case, Black; Tweezers, Self-Closing Wrench Set, Ignition, 7/32"-7/16"; Wrenches, Adj, 4" & 8*

Model No.	Description	Qty.	Tool Kit Only 9409	Case & Pallets Only 758CA520
9409	*Maintenance and*	1-3	$540.00	$199.00
	Repair Organization	4-9	$529.00	$186.00
	Tool Kit - 115 pc	10+	$518.00	$175.00

Industrial Engineers' Tool Kit - 146 pc

Use for installing and servicing terminals and office equipment, as well as military and industrial hardware. This heavy-duty, I-Beam construction, molded poly case has two top pallets and one bottom pallet plus two surface type locks, with durable, Philadelphia - padded handle. Designed with room in the lid for books and papers, and includes a meter. Case measures (I.D.) 17-3/4"L x 12-1/2"W x 8"D. **(USA)**

Tools Contained in Your Kit: *Adjuster, Spring, Pull & Push; Alignment Kit, 6"; Battery, D Size; Blades, Phillips #1 & #2 Screwdriver; Blades, Slotted 3/16", 1/4", 5/16"; Screwdriver; Box, Parts, 6 Compartments; Box, Parts, 18 Compartments; Brush, Nylon; Brush, Sash; Brush, Solder; Burnisher, Contact; Calculator, Conversion; Caliper, Pocket; Case, I-Beam, Black, w/3 Pallets; Dip Clip, 16 Pin, Std; Extension, 4"; File Set, 12 Pcs; Flashlight, Utility, 2 Cell; Gauge, Thickness; Hammer, Ball Pein, 4oz.; Handle, Regular & Tee; Heat Sink, Medium; Hemostat, Straight; Inserter/Extractor; Knife, Electrician's; Lead Cleaner; Magnifier; Mirror, Inspection; Multimeter, Digital; Nutdrivers, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" Hex; Oiler, Needlepoint; Plier, Groove Joint, 10"; Plier, Ignition; Plier, Locking; Plier, Long Nose, Serrated; Plier, Non-Serrated; Plier, Micro-Shear; Plier, Oval Head; Plier, Retaining Ring; Puller, Fuse Midget Non Slip; Punch, Center, 3/32"; Punch, Drive Pin 1/16"; Punch, Pin 1/8"; Rule, Inch & Wire Gauge; Scissors, Electrician's; Scratch Awl; Screwdriver, Offset 5/32, Slotted Blade; Screwdrivers, Phillips #0, & #0 w/ Pocket Clip; Screwdriver, Phillips #2; Screwdriver, Set, Slotted .025" - .100" 7pcs.; Screwdriver, Slotted 1/4" Stubby; Screwdrivers, Slotted Blade 1/8" x 3", 3/32" x 2", 5/16" x 6", 5/32" x 4"; Screwstarter, 3/16" Blade, 6-1/2" OAL; Quickwedge; Screwstarter, Phillips 5-3/4" OAL, w/Pocket Clip; Socket Set, 3/16"-3/4", 1/4" & 3/8 Dr, 19 pcs.; Solder Aid Tool, Fork & Hook; Solder Aid Tool, Reamer & Scraper; Soldapult; Solder Wick; Solder, Pocket-Pak; Soldering Iron, 25W; Speedy Bend; Stripper, 5-in-1 Tool; Stripper, Wire w/Cutter; Test Lead, Kit 50-in-1; Tweezer, Angular Filament Holder; Tweezers, Delrin, Glass Filled, Flat Round Pts; Wrench Set, Hex & Spline; Wrench Set, Ignition, 7/32" Thru 7/16", Pouch; Wrench, Adjustable, 4" & 8"*

Model No.	Description	Qty.	Tool Kit Only 9420	Case & Pallets Only 336CA9413
9420	*Industrial Engineers' Tool Kit - 146 pc*	1-3	$580.00	$149.00
		4-9	$569.00	$139.00
		10+	$550.00	$126.00

NSN-5180-01-244-1290

GSA USMC Communications Tool Kit - 165 pc

This kit used extensively in Operation Desert Storm, support the USMC in the field providing a single complete unit for communication service technicians. Our unique, three pallet, swing-out construction. The top two pallets are hinged together and store in the lid. Bottom pallets house larger items. Black epoxy, 1/4-turn military clasps, heavy-duty aluminum piano hinge and frame. Heavy-duty polyethylene shell in Mil-Spec green. Military spring-loaded cushioned handle. Locking clasp. Canvas bag included for emergencies when complete set is not needed. 17"L x 14"W x 9"D. (I.D.) *(Option A not included)* **(USA)**

Tools contained in your kit: *Adjuster; Spring, Pull, Spring, Push; Alignment Kit, Master Deluxe Kit; Blades: #1 Assortment, Allen Hex .050", 1/16", 5/64", 7/64", 9/64, 3/16"; Allen Hex 3/32" x 4", 1/8" x 4", 5/32" x 4"; Torx #6, #8, #10, #15, #20, #25; Brush; Solder, Case, Optimum, 3 Pallets; File, Half Round, Cut 2; Hammer, Ball Pein Handle; #2 Wooden, Regular, Tee; Hemostat, Straight; Hex Key Set, Metric Short Arm, Kit #24; Knife; #1 w/Safety Cap; Electrician's Mirror; Nutdrivers 3/16", 7/32, 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" Hex; Oiler; Pliers; Curved Needle Nose, Cutter, 8.75" OAL, Crimper, Diagonal Oval Head, Diagonal Tapered, External Snap Ring, Groove Joint, 7", Groove Joint, 10", Internal Snap Ring, Lineman's, Locking-Curved Jaw, 7" OAL, Wire Cutter, Long Chain Nose, Midget Chain Nose, Oblique Head, Oval Head; Probe Set, Double Ended; Probe, Communication Wiring; Punch, Center, 3/32"; Punch, Drive Pin, Set–8 pcs., 1/16"-5/16" Retrieving Tool, Flexible; Retrieving Tool, Magnetic Rule; Scissor, Electrician's; Screwdriver Set Offset Ratchet, 5 pcs., Screwdriver; Long Reach, Mechanics, Phillips #0 w/Pocket Clip, #1, 3/16" x 3", #2, 1/4" x 4", #2, 1/4" x 1-5/16"; #3, Set Slotted .025"-.100", 7 pcs., Slotted 1/4" Stubby, Slotted 3/32" x 2", 1/8" x 3, 3/16" x 3", 5/16" x 6" Blade Screwstarter, 3/16" Blade 6-1/2" OAL, Quickwedge; Socket Set, 1/4" Drive, 14 pcs.; Solder Aid Tool, Fork & Hook Solder Removal Tool; Soldering Iron; Stand, Solder; Stripper, Wire w/Cutter; Tip, Chisel, 1/8" Tip; Screwdriver, 1/8", Tool Pouch; Tweezers, Self-locking; Wrench Set, Ignition, 7/32" - 7/16", Pouch; Wrench, Adjustable, 4" & 8"*

Model No.	Description	Qty.	Tool Kit Only 8360	A. Extech DMM 355TE760	Techni-Stat® ESD Service Mat 205ST010	*Tec-Tuff®* Cases & Pallets Only 758CA2717
8360	*GSA USMC Communications Tool Kit - 165 pc*	1-3	$749.00	$39.00	$39.95	$175.00
		4-9	$730.00	$37.50	$37.00	$164.00
		10+	$719.00	$34.00	$34.00	$152.00

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or 1-610-941-2400

TEC-TUFF

Design-A-Kit®
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Pick-A-Kit®
We customize kits to meet your needs.

Master Maintenance Tool Kit - 135 pc

The tools in your Master Maintenance Tool Kit have been selected based on the thousands of MRO Kits we have designed. ***The Tec-Tuff® Case:*** a rugged, rotationally molded, dense *Tec-Tuff®* Wheely™ Polyethylene case and heavy-gauge black powder coated aluminum valance and piano hinge. It features four 2" replaceable, built-in cassette-type wheels with sealed-bearing construction, plus a quick-release metal telescoping luggage cart handle that locks into place in extended and closed positions. Two keyed Franzen draw bolt latches, a three tumbler combination lock and bungee cords with "D" ring. A bumper stabilizes the case when standing in the carry position. The three-pallet deep construction includes two pallets and a document pocket inside the case lid. 17-3/4"L x 14-1/2"W x 9"D. (I.D.) **(USA)**

Tools contained in your kit: *Adapter, with Modular Jack on Each End: Alignment Kit: Battery, AA Size(2): Blade, 1/8", 3/16", 3/32", 5/32", 7/64" Ballpoint Allen Hex: Blade, Allen Hex, 2mm, 2.5mm, 3mm, 4mm, 5mm: Blade, Balldriver 1/16", 5/64" Allen Hex: Blade, Balldriver, .050" Allen Hex: Blade, Phillips #2 Screwdriver: Blade, Torx T10, T15 & T20, Screwdriver: Box, Parts 7" x 4" x 1-1/16", 11 compartments Brush, Solder: Burnishers, Contact (3): Cable Ring Cutting Tool: Case, Roto-Tec: Drill, 3/8 VSR High Speed: Drill, Bit Set, 13 pc, High Speed: Extractor, Lamp: Flashlight, Penlight: Gauge, Metric Thickness, Hammer, Ball Pein: Handle, Junior: Handle, Regular: Insertion/Extraction Tool: Knife, Electrician's Locking Mirror, 7/8" Inspection: Nutdriver, 11/32", 3/8", 1/2", 7/16", 9/32", 1/4", 3/16", 7/32", 5/16", Hex: Plier, Diagonal, Oval Head: Plier, Micro-Shear: Plier, Long Nose w/Cutter, Serrated: Plier, Groove Joint 10": Plier, Lineman's, Heavy-Duty: Plier, Long Nose with Cutter, Serrated: Probe Pic, Insulated: Punch, Center, 3/32 Punch, Drive Pin, 1/16": Punch, Pin, 1/8": Punch Down Tool, with 66 Blade: Rule, Inch & Wire Gauge, Scissor, Electrician's: Scratch Awl: Screwdriver, Allen Hex Ballpoint, Blade 9/64": Screwdriver, Offset, Slotted #2-#6: Screwdriver, Phillips #2, 1/4" x 1-5/16": Screwdriver, Phillips #0, with Pocket Clip, Screwdriver, Slotted, 5/32" x 3" Blade: Screwdriver, Slotted, 5/16" x 6" Blade: Screwdriver, Slotted, 1/4 Stubby: Screwdriver, Slotted, 1/4" x 4" Blade: Screwdriver, Slotted 1/8" x 8" Blade: Screwdriver, Slotted 3/16" x 3" Blade: Screwdriver, Slotted, 3/32" x 2" Blade: Screwdriver, Phillips #1, 3/16" x 3": Screwdriver Phillips #2, 1/4" x 4": Screwdriver Set, Slotted .025"-.100", 7 pc: Screwstarter, Double-Ended, Slotted & Phillips: Socket Set, 1/4" Drive, 14 pc: Solder, 60/40 Pocket-Pak: Solder Aid Tool, Fork & Hook: Solder Wick, Anti-Static: Soldering Iron, 25W: Spring Hook, Pull & Lift: Staples, 7/16" for T-25, 1000/pkg: Staple Gun: Stripper, 5-in-1: Stripper, Wire T-7, 22-30 AWG: Tape, Fish: Tape Measure, 25 : Tape, Vinyl Plastic Electrical: Tester, Telecheck Modular Phone Line: Tweezer, Self-Locking: Wire-Wrap, Manual, 30 AWG, Strip/Unwrap Tool: Wrench, Adjustable, 4"& 8": Wrench Set, Ignition, 7/32" thru 7/16 :with Pouch 8 pcs*

Model No.	Description	Qty.	*Tec-Tuff®* Granite Tool Kit 9750	*Tec-Tuff®* Yellow Tool Kit 9751	*Tec-Tuff®* Orange Tool Kit 9752	*Tec-Tuff®* Black Tool Kit 9753
9750/9751	*Master Maintenance*	1-3	$935.00	$945.00	$945.00	$945.00
9752/9753	*Tool Kit - 135 pc*	4-9	$920.00	$930.00	$930.00	$930.00
		10+	$899.00	$919.00	$919.00	$919.00

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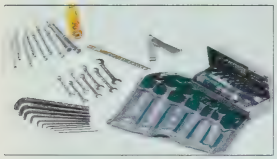
TEC-TUFF

9707 Horizontal Pallets



Add to Any Tool Kit!

Metric Conversion Kit - 50 pc

Double your capacity to service products. The 7611, supplied in a corrugated mailer, will fit easily into the bottom of your tool case.This kit contains 50 metric items: Handle Hex Wrench Set,1.27-6mm (10 pc.); Gauge, Feeler Ignition; Wrench Set, 7 pc.; Nutdrivers, 4mm, 4.5mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm; Rule, 6"; Metric Socket Set 1/4" Driver, 4mm-12mm (14 pc); Wrench Set Combo, 7 pc.

No. 7611 ..... **(1-3) $160.00**
(4-9) $155.00
(10+) $147.00

9607 Vertical Pallets

Cleanroom Wheely™ Tool Kit - 126 pc

The tools in this kit have been hand-picked to service a wide variety of equipment in the bio-medical field. The case features rugged, deep case construction, rotationally-molded, of dense polyethylene, with a heavy-gauge anodized aluminum valance with a latex- gasket to keep out dirt and moisture. **Features:** four 2", built-in, cassette-type, replaceable wheels, with sealed-bearing construction; quick-release metal telescoping luggage cart handle that locks into place when in open and closed position; quarter-turn, military-style stainless steel latches with built-in hasp for padlocks; three washable pallets with drain holes, mesh document pocket. 17-3/4"L x 14-1/2"W x 12"D (I.D) **(USA)**

Tools contained in your kit: *Alignment Tool: 6"; Nylon; Balldriver Set: .050" - 5/16" L-Wrench, 12 Pcs, 1.5-10mm L-Wrench, 9 Pcs; Battery "D" (2); Blades, screwdrivers: 1/8", 3/16", 3/32", 5/32", 7/64", 9/64" Ballpoint Allen Hex; Balldriver: .050", 1/16", 5/64", Allen Hex; Case, Cleanroom; Crimper, Desolder Pump; Extension, 4" and 7"; Extractor, Dip; Flashlight, 2 D-Cell; Gauge, Feeler .0015" .025"; Handle, Regular and Tee; Hemostat: Mini Straight Lock, Straight Lock; Holder, Parts; Knife, Electricans Locking; Knife, Retractable; Levels: Bulls Eye and Torpedo; Mirror, Inspection; Nutdrivers Hex, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"; Plier: Heavy-Duty, Diagonal Oval Head, Groove Joint 7"; Ignition, Locking, Long Nose, Oval Head, Snap Ring; Subminiature, 4" OAL; Punches: Center 3/32", Drive Pin 3/32", Pin 1/8"; Probe Set, 4 pcs. w/pouch; Rule, Inch & Decimal; Scissor, Straight; Scratch Awl; Screwdriver: Phillips #0-1/8" x 2", #1-3/16" x 6", #2-1/4" x 4", #2-1/4" x 1-5/16", Set Slotted .025"- 100" 7pcs.; Slotted 1/4" Stubby, 3.25" OAL; Slotted 1/8" x 2", 1/8" x 8", 3/16" x 3", 3/32" x 2", 1/4" x 4", 5/16" x 6" Blade; Screwstarter, Double-End; Screwstarter, Solder, Pocket-Pak; Solder Wick; Soldering Iron, 25W; Spring Hook, Pull & Lift; Stripper, Wire; Wrench Set, Torx, Fold-up 7 pc., T-6 to T-20; Tape Measure; Tweezer, Filament Holder 6" OAL; Utility Box, Plastic 12 Compartments; Ignition wrench set, 7/32"-7/16" 8 pcs., Wrench, Adjustable 4" & 8*

Model No.	Description	Qty.	Tool Kit with Vert. Pallets 9607	Tool Kit with Horz. Pallets 9707	*Tec-Tuff®* Case with Vert. Pallets 758CA607	*Tec-Tuff®* Case with Horz. Pallets 758CA609
9607/9707	*Cleanroom*	1-3	$825.00	$830.00	$375.00	$380.00
	Wheely™	4-9	$799.00	$805.00	$365.00	$370.00
	Tool Kit - 126 pc	10+	$777.00	$785.00	$350.00	$355.00

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Use In Cleanroom Areas Where Contamination Must Be Held To An Absolute Minimum!

Cleanroom Master Tool Kits - 91 pc

Use for: Electronics, Biological, Pharmaceuticals, Medical/Device Assembly and Semiconductor Production. Take this in and out of your cleanroom. These kits are built to withstand constant solvent washing and cleaning. The case is solvent-impervious, smooth, white, vacuum formed H.D.P.E. with no sharp corners to accumulate contaminants. It has an anodized aluminum frame and stainless hinge with a built-in latex-o-ring dust seal. The locks are 1/4 turn stainless steel military-type latches. Lid stays are nickel plated and treated for noncontamination. The non-particulating handle, P.V.C. tray rests and pallet backing have been tested and approved by major clean-room users. The pocket material is a heavy-duty Urethane with drain holes to drain solvent and contaminants during clean cycles and chrome plated combination lock. 17-1/2"W x 12-1/2"H x 8" or 10"D (I.D.) **(USA)**

Tools contained in your kit: *Alignment Tools: Mini, 6" Nylon; Balldriver Set. 5/64"-3/16" ; L-Wrench, 7 pcs.; Battery "AA" (2); Blade, #1 5/Pk.; Box, Parts,18 Compartments: Box, Parts, 6 Compartments; Case, White. Clean Room; Crimper, Super Champ; Extension, 4"; Flashlight. Penlight; Hammer, Ball Pein; Handle, Regular; Hemostat, Curved; Knife, #1 w/Safety Cap; Mirror; Nutdriver, 3/16", 7/32", 1/4", 9/32", 5/16" 11/32", 3/8", 7/16", 1/2" Hex: Pallet, Bottom. 26 Pockets; Pallet. Top, 32 Pockets; Parts Holder. Plastic Safety Cap; Plier, Groove Joint 10"; Plier, Long Chain Nose; Plier, Oval Head: Plier. Relieved Head; Plier, Transverse End Cutter; Probe, Communication Wiring; Rule; Scissor, Embroidery; Screwdriver. Offset 1/4" 1 & 2, 3 15/16" OAL; Screwdriver, Phillips #0 w/Pocket Clip; Screwdriver, Phillips #1-3/16" x 3", #2-1/4" x 1-5/16 , #2-1/4" x 4"; Screwdriver, Set Slotted .025"-.100" 7 pcs.; Screwdriver. Slotted 1/4" Stubby. Screwdriver, Slotted 1/8" x 3", 3/16" x 3", 3/16" x 6", 1/4" x 4", 5/16" x 6" blade Screwstarter, Slot 5-5/8" w/Magnet; Screwdriver. Offset. 4 way; Socket Set. 1/4 Drive, 14 pcs.; Spring Hook. Pull & Lift; Stripper. Wire w/Cutter; Tweezers, Self-Locking; Wrench Set, Combo, 10 pcs. Midget w/Pouch; Wrench. Adjustable. 4" & 8*

TEC-TUFF

Ask About Design-A-Kit®!

Model No.	Description	Qty.	8" Tool Kit 9901-8-2	10" Tool Kit 9901-10-2	8" Metric Tool Kit 9901-8-2M	8" Case & Pallets Only 758CA128	*Tec-Tuff®* 10" Case & Pallets Only 758CA130
9901-8-2	*Cleanroom Master*	1-3	$498.00	$510.00	$538.00	$210.00	$225.00
9901-10-2	*Tool Kit - 91 pc*	4-9	$484.00	$492.00	$524.00	$199.00	$219.00
9901-8-2M		10+	$475.00	$484.00	$515.00	$185.00	$200.00

Cleanroom Inch & Metric Combo Tool Kit - 172 pc

Your *Tec-Tuff®* Cleanroom Tool Kit contains both our most requested metric and standard tools. Designed to handle most types of fasteners in a technical environment. Made to handle all the same conditions as the 9901 Series Cleanroom Kit. **Note: Wrenches and Sockets in Metric Sizes.* **(USA)**

Tools contained in your kit: *Alignment Tool: Mini, 6", Balldriver Set: 1.5-10mm; L-Wrench, 9 pcs.; Balldriver Set, 5/64"-3/16", L-Wrench, 7 pcs.; Battery, "AA" (2); Blade; Allen Hex.1.27mm,1.5mm, 2mm. 2.5mm, 3mm, 4mm, 5mm; Blade, #1. Asst. 5/pk.; Box, Parts, 18 Compartments; Box, Parts, 6 Compartments; Case White, Clean Room: Crimper, Super Champ; Extension, 4"; File Set. Needle. 7 pcs. w/Handle: Flashlight; Hammer, Ball Pein; Handles: Ratchet, Tee, Regular; Hemostat. Curved: Knife: #1 w/Safety Cap; Knife, Retractable: Mirror; Nutdriver 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" Hex: Nutdriver. Hex 4mm. 4.5mm. 5mm, 5.5mm. 6mm, 7mm. 8mm, 9mm 10mm, 11mm: Parts Holder Plier: Groove Joint Plier; Kit, Snap Ring; Long Chain Nose Plier; Oval Head Plier; Relieved Head Plier: Transverse End Cutter: Probe, Communication Wiring; Rule; Scissor, Embroidery; Screwdriver, Offset 1/4" Blade; Screwdriver, Offset. Phil Sizes 1 & 2, 3 15/16" OAL; Screwdriver, Phillips #0 w/Pocket Clip; Screwdriver. Phillips #1. #2; Screwdriver. Phillips #2: 1/4" x 4" Screwdriver, Set Ratchet Offset, 27 pcs.; Screwdriver, Set Slotted .025"-.100" 7 pcs.; Screwdriver, Slotted 1/4", Stubby; Screwdriver, Slotted 3/32" x 3" ,1/8" x 3" 3/16" x 3", 3/16" x 6" , 1/4" x 4" , 5/16" x 6" Blade; Screwstarter; Slot 5-5/8" w/Magnet; Socket Set, 1/4" Drive, 10 pcs.; Metric 4-13mm Socket Set, 1/4" Drive, 14 pcs. Spring Hook. Pull & Lift; Stripper, 5-in-1 Tool ; Tweezers, Self Locking; Wiring Tool, 22-10 AWG, Stripper/Cutter; Wrench Set, Combo, 10 pcs.; Midget w/Pouch Wrench Set. O.E., Metric, 5.5mm-11mm, 7pcs.; Wrench. Adjustable, 4" & 8".*

Model No.	Description	Qty.	8" Tool Kit 2001-8-3	10" Tool Kit 2001-10-3	8" Case & Pallets Only 758CA132	10" Case & Pallets Only 758CA134
2001-8-3	*Inch & Metric*	1-3	$745.00	$755.00	$265.00	$275.00
2001-10-3	*Tool Combo Cleanroom*	4-9	$736.00	$745.00	$255.00	$265.00
	Tool Kit - 172 pc	10+	$715.00	$725.00	$240.00	$250.00

Convert-A-Kit®: Customize any tool kit to fit your need!

Tec-Tuff® I-Beam™ Case

The Tec-Tuff® I-Beam™ design is based on one premise: every detail, from the valance to the pallet holders, from the comfort-padded handle to the locks, must be built to provide field service technicians with years of satisfaction.

Our I-Beam™ case is made of specially-engineered, thick, high-density, molded structural polyethylene to give you a case that won't sag in the center or punch through at the corners or the molded-in feet.

Next,we add an extra-wide, anodized aluminum valance; deep-set to prevent valance separation during use. Then we add: a full-length piano hinge; ball-bearing, locking-lid stays so the lid stays open, even when filled with tools; extra-wide top and bottom pallet supports; rigid, non-flex, pallets that are hand-sewn, riveted and neatly finished; a comfort-padded handle; and two redesigned, heavy-duty locking latches. Techni-Tool® builds tool cases that last.

Plus,Tec-Tuff® I-Beam™ cases include this no-nonsense, Three-Year Warranty: Your case is warranted against defects in materials and workmanship for three full years on the case shell, or we will replace it; tool pallets have a full two-year warranty; latches or handles have a one-year warranty - all from date of purchase. Like any product, your I-Beam™ is not indestructible. Our warranty does not cover damage that may result from abuse, or normal wear.

Electronic Technician Tool Kit - 111 pc

Tools contained in your kit: *Alignment Kit 6 Battery, Size D (2), Blade, Phillips #1 & #2 Screwdriver; Blade Slotted 1/8 3/16", 1/4"; Boxes, Parts, 6 Compartments; Boxes, Parts, 17 Compartments; Brush, Solder; Burnisher Contact (3); Calculator, Metric; Case, I-Beam, Black, w/2 Pallets; Extension, 4"; Flashlight, Stub; Gauge, Thickness; Hammer, Ball Pein Handle Regular, Handle Tee, Hemostat Straight Knife Electrician's Mirror Nutdriver, Hex 3/16", 7/32 1/4 9/32 5/16, 11/32, 3/8 7/16, 1/2, Oiler; Plier, Long Chain Nose Plier Groove Joint 10 Plier Midget Chain Nose Plier, Micro-Shear Plier, Oval Head, Plier, Retaining Ring 6 Internal/External, Punch, Center 3/32, Punch, Drive Pin 1/16, Punch, Pin 1/8 Rule Scisser Electrician's Scratch Awl Screwdriver Offset #2 - #6 Slotted Blade Screwdriver, Phillips #0 #2 Screwdriver Set Slotted .025 - 100 7 pc Screwdriver Slotted 1/4 Stubby Screwdriver Slotted 3/32 x 2 1/8 x 8 5/32 x 4 5/16 x 6 Blade Screwstarter 3/16 Blade 6-1/2 OAL, Quickwedge Socket Set 1/4 Drive 14 pcs Solder Aid Tool Fork & Hook Solder Aid Tool, Reamer & Scraper Solder Wick Solder Pocket-Pak Soldering Iron Spring Hook Pull & Lift Stripper, 5 in 1 Tool Stripper Wire w/Cutter Tweezer Angular Filament Holder Tweezer Self Locking Wrench Set, Hex & Spline Wrench Set Ignition 7/32 - 7/16 Pouch Wrench 4" Adjustable; Wrench, 8" Adjustable*

Case Dimensions: **17-3/4"L x 12-1/2"W x 5"D (I.D.) **17-3/4"L x 12-1/2"W x 7"D (I.D.)*

Metric Conversion Kit - 50 pc

This kit contains 50 metric items: Handle Hex Wrench Set,1.27-6mm (10 pc.); Gauge, Feeler Ignition: Wrench Set, 7 pc.; Nutdrivers, 4mm, 4.5mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm; Rule, 6"; Metric Socket Set 1/4" Driver, 4mm-12mm (14 pc); Wrench Set Combo, 7 pc.

No. 7611 (1-3) $160.00 (4-9) $155.00 (10+) $147.00

Model No.	Description	Qty.	Tool Kit Only 9408	Extra-Deep Case & Two Pallets and Tools 9416	*Tec-Tuff®* 5" Case & Pallets for 9408 Only 336CA9407*	*Tec-Tuff®* 7" Case & Pallets for 9416 Only 336CA9403**
9408	*Electronic Technician*	1-3	$420.00	$435.00	$130.00	$135.00
9416	*Tool Kit - 111 pc*	4-9	$410.00	$419.00	$121.00	$125.00
		10+	$399.00	$409.00	$109.00	$114.00

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Phone: 1-800-832-4866
or 1-610-941-2400

Metric International Master Electronic Tool Kit - 128 pc

This kit was developed to service equipment from Japan, Germany and Korea. We have taken our basic tool kit and replaced every possible tool that has an available metric sized equivalent. 17-3/4"L x 12-1/2"W x 5"D. (I.D.) **(USA)**

Tools contained in your kit: *Alignment Kit: Battery, D Size (2): Blade, Phillips #0, #1, #2: Blade, Slotted 3.5mm, 5mm, 6.5mm Screwdriver: Blade, Torx T10, T15, T20: Brush, Paint: Brush, Solder: Burnisher Contact, (3): Calculator, Metric: Case, I-Beam, w/2 Pallets: Extension, 100mm: Flashlight, Utility 2 Cell Gauge, Thickness: Hacksaw, Mini, 225mm OAL: Little-Nic: Hammer: Ball Pein, 4 Oz.: Handle, Regular Handle, Tee: Heat Sink, Delicate: Hemostat, Straight: Hex Key Set, 1.27-10mm 10 pc., Pouch Set Insertion/Extraction Tool For Size 20 Contacts: Key Cap Remover: Knife, Electrician's: Mirror: Nutdriver, 4mm, 4.5mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm Hex: Oiler: Plier, Groove Joint, 250mm, Plier, Long Chain Nose: Plier, Metric Wire: Plier, Micro-Shear: Plier, Oval Diagonal Head: Plier, Retaining Ring: Plier, Short Chain Nose: Probe, #1: Punch, Center, 2.5mm: Punch, Drive Pin 1.7mm; Punch, Pin, 3.0mm: Rule: Scissor, Electrician's; Scratch Awl: Screwdriver, Offset 4.0mm Slotted: Screwdriver, Phillips #0 w/Pocket Clip; Screwdriver, Set, Slotted 6.4mm - 25.4mm 7 pc.; Screwdriver, Phillips #2, Slotted 6.5mm Stubby: Screwdriver, Slotted Blade 2.5mm x 50mm, 3mm x 75mm, 4mm x 10mm, 8mm x 150mm: Screwstarter, 5mm Blade 170mm OAL: Socket Set, 6.5mm, Metric, 14 pc.: Solder Aid Tool, Solder Aid Tool, Fork & Hook: Solder Aid Tool, Reamer & Scraper; Solder Wick: Solder, Pocket-Pak Soldering Iron, 25W: Spring Hook, Pull & Lift: Stripper, Wire w/Cutter: Tweezers, Angular Filament Holder Tweezers, Self Locking: Wrench Set, Hex & Spline: Wrench Set, O.E., Metric, 5.5mm - 11mm: Wrenches Adj., 100mm & 205mm*

TEC-TUFF

"Design-A-Kit®: Customize any kit to fit your needs."

Model No.	Description	Qty.	Black Tool Kit 9410	Silver Tool Kit 9411	*Tec-Tuff®* Black Case & Pallets Only 336CA9407	*Tec-Tuff®* Silver Case & Pallets Only 336CA9407S
9410 Black	*Metric International*	1-3	$495.00	$495.00	$130.00	$130.00
9411 Silver	*Master Electronic*	4-9	$484.00	$484.00	$121.00	$121.00
	Tool Kit - 128 pc	10+	$479.00	$479.00	$109.00	$109.00

FSN-5180-01-023-4982

GSA Systems Maintenance Tool Kit - 114 pc

This kit was designed by the US Army with Techni-Tool to provide a field technician with a first quality tool assortment with snap-in blades and solid handle screwdrivers. The complete assortment of 114 pieces shown below. We have this kit in our new improved two pallet I-Beam™ case design. Custom Convert-A-Kit® or Design-A-Kit® modifications are available...call or write for details. 17-3/4"L x 12-1/2"W x 5"D. (I.D.) **(USA)**

Tools contained in your kit: *Alignment Kit, 6": Battery, AA Size (2): Blade, Hex 1/16, 1/8, 3/16, 3/32, 5/32 5/64, 7/64", 9/64": Blade, Torx #6, #8, #10, #15, #20, #25; Blade, Hex .050; Burnisher, Heavy-duty: Calculator Metric; Case, I-Beam: Flashlight, Penlite; Gauge, Metric 25 Blades; Hammer, Ball Pein, 4 oz.: Handle, Regular Hex Key Kit, Metric: Knife, Electricians; Mirror, Inspection; Nutdriver, Hex, 1/2", 3/8", 5/16", 7/16", 11/32", 1/4", 3/16", 7/32", 9/32": Oiler; Plier, Diag., 4" OAL, Semi-Flush: Plier, Oval Diagonal Head, 5" OAL: Plier, Long Chain Nose, 5.5" OAL: Plier, Pump, 10"; Plier, Snap Ring - External: Plier, Snap-Ring - Internal; Punch, Center 3/32": Punch, Pin 1/16", 4" OAL: Punch, Pin, 1/8": Rule, Inch & Wire Gauge, SS, 6"; Scissor, 3 5/8 OAL Scratch Awl: Screwdriver, Offset 5/32" Slotted: Screwdrivers, Phillips #0 x 2, #1 x 3", #2 x 1-5/16, #2 x 4 Screwdriver, Phillips, #0; Screwdriver, Set 7 pcs, Jewelers; Screwdriver, Slotted 1/4" Stubby: Screwdrivers Slotted, 1/4 x 4", 1/8" x 8", 3/16" x 3", 3/32" x 2", 5/16" x 6", 5/32" x 3": Screwstarter: Stripper 5-in-1 Tool Socket Set, 1/4" Drive, 14 pcs: Solder Aid, Fork & Hook: Solder Brush: Solder Wick: Solder, Pocket-Pak Soldering Iron: Spring Adjuster, Pull: Spring Adjuster, Push: Tweezer, Self-closing: Wire Stripper/Cutter Adj.: Wrench, Adjustable, 4"; Wrench, Adjustable, 8": Wrench Ignition Set 7/32"- 7/16" pouch*

Model No.	Description	Qty.	Tool Kit Only 9408-GSA	*Tec-Tuff®* Case & Pallets Only 336CA9407G
9408-GSA	*GSA Systems*	1-3	$455.00	$140.00
	Maintenance	4-9	$445.00	$130.00
	Tool Kit - 114 pc	10+	$434.00	$115.00

Techni-Tool Exclusives!

Our Most Popular Tool Kit!

Deluxe Classic Field Engineer's Tool Kit - 132 pc

The 132 tools found in our *Tec-Tuff*® case are a complete assortment of tools featuring Xcelite® nutdrivers and screwdrivers with snap-in blades and solid handles. Choose from Black or Silver in three depths – 6", 8" and 10", with two pallets. Each case measures 18-1/2"L x 13-1/2"W. (I.D.) **(USA)**

Tools contained in your kit: *Alignment Kit, 6"; Alignment Tool, 5" OAL.; Battery, AA Size (2); Blade, Allen Hex .050 4" OAL, Blade, Allen Hex 1/16", 5/64", 7/64", 9/64", 3/16", 3/32" x 4", 1/8" x 4", 5/32" x 4" Blade; Blade, Pozidriv #1, #2; Blade, Screwdriver Phillips #1, # 2; Blade, Torx #6, #8, #10, #15, #20, #25, #27; Blade, Screwdriver, Slotted 3/16", 1/4", 5/16"; Box, Parts, 18 Compartments; Box, Parts, 6 Compartments; Brush, Sash; Brush, Solder; Burnisher, Contact, 3 pc.; Calculator, Conversion; Case, Tec-Tuff, 2 Pallets; Extension, 4" & 7"; Flashlight, Penlight 2-Cell; Gauge, Thickness; Hacksaw, Mini, 8-3/4" OAL; Hammer, Ball Pein, 4 Oz.; Handle, Regular; Handle, Tee; Hex Key, Set, 7 pc. Std.; Knife, Electrician's; Magnifier; Mirror; Nutdriver, 3/16", 7/32", 1/4", 9/32" 5/16", 11/32", 3/8", 7/16", 1/2"; Oiler; Plier, Groove Joint, 4", 10"; Plier, Long Nose Serrated; Plier, Micro-Shear; Plier, Retaining Ring; Plier, Midget Chain Nose; Punch, Center, 3/32"; Punch, Drive Pin 1/16"; Punch, Pin, 1/8"; Retrieving Tool; Ruler, Inch & Wire Gauge; Scissor, Electrician's; Scratch Awl; Screwdriver, Offset #2-#6 Slotted Blade; Screwdriver, Phillips #0 w/Pocket Clip; Screwdriver, Phillips #1 & #2; Screwdriver, Set, Slotted .025"-.100" 7 pc.; Screwdriver, Slotted 1/4" Stubby; Screwdriver, Slotted 3/32" x 2", 1/8" x 8", 5/32" x 4", 5/16" x 6" Blade; Screwholder, Slotted 3" & 10"; Socket Set, 1/4 Drive, 14 pc. Solder Aid Tool, Fork & Hook; Solder Aid Tool; Reamer & Scraper; Solder Wick; Solder, Pocket-Pak; Soldering Iron, 25W; Spring Hook, Pull & Lift; Stripper, 5 in 1 Tool; Stripper, Wire w/Cutter; Tweezers, Angular Filament Holder; Tweezers, Self Locking; Tweezers, Straight Lock; Wrench Set, Ignition, 7/32" - 7/16"; Wrench, Adjustable, 4" & 8*

Add to Any Tool Kit!

Metric Conversion Kit - 50 pc

This kit contains 50 metric items: Handle Hex Wrench Set,1.27-6mm (10 pc.); Gauge, Feeler Ignition; Wrench Set, 7 pc.; Nutdrivers, 4mm, 4.5mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm; Rule, 6"; Metric Socket Set 1/4" Driver, 4mm-12mm (14 pc); Wrench Set Combo, 7 pc.

No. 7611 ..... (1-3) $160.00 (4-9) $155.00 (10+) $147.00

Model No.	Description	Qty.	6" Two Pallet Tool Kit (Silver) 9801-6-2	6" Two Pallet Tool Kit (Black) 9802-6-2	8" Two Pallet Tool Kit (Silver) 9803-8-2	8" Two Pallet Tool Kit (Black) 9804-8-2	10" Two Pallet Tool Kit (Silver) 9805-10-2	10" Two Pallet Tool Kit (Black) 9806-10-2
9800	*Deluxe Classic*	1-3	$495.00	$495.00	$520.00	$520.00	$530.00	$530.00
Deluxe	*Field Engineer's*	4-9	$482.00	$482.00	$510.00	$510.00	$520.00	$520.00
	Tool Kit - 132 pc	10+	$470.00	$470.00	$499.00	$499.00	$509.00	$509.00

Diagnostic Master Tool Kit with Three Pallets - 166 pc

Designed for the Computer Field Service and Repair Engineer who needs to be prepared for what ever surprises the job site may hold, this special assortment of Xcelite® electronic field service tools has been placed on three exclusive, hand-sewn Novalux® pallets. Your tools are housed in a rugged *Tec-Tuff*® 8" or 10" Classic Case, in your choice of Silver or Black. **(USA)**

Tools contained in your kit: *Alignment Tool Kit; Alignment Tool, 5 OAL; Awl, Scratch; Battery, AA (2); Allen Hex Blades: .050", 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/64", 9/64"; Phillips Blades: #1, #2, Pozidriver Screwdriver Blade: #1, #2; Torx Blade: T6, T8, T10, T15, T20, T25, T27; 6 Compartments Parts Box: 4-5/16" x 2-9/16" x 1-1/16"; 6 Compartments Utility Box; Sash Solder Brush; Calculator: Conversion; Flashlight, Heavy-Duty (2) D Cells; Thickness Gauge, Hacksaw, Mini, 4oz. Ball Pein Hammer; Regular and Tee Handle; Straight Hemostat; Hex Key Set - 7pcs.; Knife, Electricians; Magnifier; Mirror; Hex Nutdriver, 3/8", 7/16", 1/2", 3/16", 11/32", 5/16", 7/32", 1/4", 9/32"; Oiler; Groove Joint Plier; Retneving Tool; Inch & Wire Gauge Rule; Scissors, Electricians; Screwdriver Slotted 1/8" x 8", 3/32" x 25/16" x 6", 5/32" x 4"; Offset Slot Screwdriver: #2, #6; Phillips Screwdriver: #0, #1, #2, #3, #0 w/ Pocket Clip, Screwdriver Set, .025" - .100", 7pcs.; Socket Set, 14pcs; Soldapullt; Solder - Pak, Solder - Wik; Fork & Hook Solder Aid Tool; Reamer & Scraper Solder Aid Tool; Stripper, 5-in-1; Stripper w/ Wire Cutter, Filament Holder Tweezer; Adjustable Wrench; 4" & 8*

Model No.	Description	Qty.	8" Case & Kit (Silver) 9807-8	8" Case & Kit (Black) 9808-8	10" Case & Kit (Silver) 9809-10	10" Case & Kit (Black) 9810-10
9800	*Electronic*	1-3	$675.00	$675.00	$685.00	$685.00
	Diagnostic Master	4-9	$659.00	$659.00	$672.00	$672.00
	Tool Kit - 166 pc	10+	$645.00	$645.00	$658.00	$658.00

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

General Appliance Field Service Tool Kit - 121 pc

This field service kit has been specially designed for the repair and maintenance of general electrical appliances in the field and includes the tool you need to service almost any appliance. The improved *Tec-Tuff*® Deluxe Classic Case features: Three-on-two pallet configuration and 121 quality tools **Additional Features Include:** Two lift out pallets, 8" deep *Tec-Tuff*® case with built-in, non-tip feet, continuous aluminum hinge, extra-wide, padded handle, combo-lock-valance and high-molecular density, polyethylene case.
Size: 18-1/2"L x 13-1/2"W x 8"D. (I.D) **(USA)**

Tools contained in your kit: *Alignment Tool, 6"; Battery, Size D (2); Blades, Allen Hex .050", 1/16", 5/64", 7/64", 9/64", 3/16"; Blades, Allen Hex 3/32" x 4", 1/8" x 4", 5/32" x 4" Blade; Blades, Pozidriv #1, #2; Blades, Torx #6, #8, #10, #15, #20, #25, #27; Brush, Sash; Brush, Solder; Burnisher, Contact (3); Calculator, Conversion; Case, 8" Tec-Tuff w/ Swing out Pallets; Crimper, Super Champ; Extension, 4"; Flashlight, Utility, 2 Cell; Gauge, Thickness; Hacksaw, Mini, 8-3/4" OAL, Little-Nic; Hammer, Ball Pein; Handle, Regular; Handle, Tee; Hemostat, Straight; Knife, #1 w/Safety Cap and 5/Pk. Blade #1; Knife, Electrician's Locking; Mirror, 7/8" Inspection; Nutdrivers: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" Hex; Oiler; Pliers, Groove Joint, 7"; 10"; Plier, Locking-Curved Jaw; Plier, Long Nose w/Cutter; Plier, Midget Oval Head; Plier, Oval Head; Plier, Snap Ring External; Plier, Snap Ring Internal; Puller, Fuse, Midget, Non Slip; Punch, Center, 3/32"; Punch, Drive Pin, 1/16"; Rule; Scissor, Electrician's; Scratch Awl; Screwdriver, Alignment Tool, Screwdriver, Offset #2 - #6; Screwdrivers, Phillips #0 4-5/8" OAL, #0 w/ Pocket Clip, #1, #2 8-1/8" OAL, #2 3-3/8" OAL; Screwdrivers, 7pcs. Slotted .025"-.100"; Screwdriver, Slotted 1/4" Stubby; Screwdrivers, Slotted 3/32" x 2", 1/8" x 3", 1/8" x 8", 5/32" x 3", 3/16" x 3", 1/4" x 4", 5/16" x 6 Blade; Screwdriver, Torx T-15; Screwstarter, 3/16" Blade 6-1/2"OAL, Quickwedge; Socket Set, 1/4" Dr. 14 pcs.; Solder Aid Tool, Fork & Hook; Solder Aid Tool, Reamer and Scraper; Solder Removal Tool; Solder, Pocket-Pak; Soldering Iron, 25W; Spring Hook, Pull & Lift; Stripper, 6-in-1, 7.5" OAL; Stripper, Wire w/Cutter; , Self Locking; Wrench Set, Ignition, 7/32" - 7/16", 8pcs; Wrench, Adjustable, 4" & 8"*

TEC-TUFF

Design-A-Kit®
Convert-A-Kit®
Pick-A-Kit®
We customize kits to meet your needs.

Model No.	Description	Qty.	Tool Kit Only 9830	Case & Pallets Only 658CA968
9830	*General Appliance*	1-3	$555.00	$185.00
	Field Service	4-9	$540.00	$175.00
	Tool Kit - 121 pc	10+	$529.00	$165.00

Electronic Tech Engineer Kit - 86 pc

The *Tec-Tuff*® Elite™ case is specially designed with field service technicians in mind. Your case has double-wall construction, made of shock-proof, high-density polyethylene. It's resistant to extreme high and low temps and to most corrosive chemicals. This case also features two metal lid support stays with security spring sliding bolts with two flush mount locks, distinctive hinge, molded-in feet and ABS handle with soft rubber grip. 16-1/2"L x 12-3/4"H x 7-1/4"W (I.D.). **(USA)**

Tools contained in your kit: *Alignment Tool, Mini; Allen Hex, Blade, 9/64", .050 x 4" OAL, 1/16", 5/64", 7/64", 3/32" x 4", 1/8" x 4", 5/32" x 4", 3/16"; Box, Parts 7" x 4" x 1-1/16", 11 Compartments; Box, Parts 12-1/4" x 6-1/8" x 1-1/2", 6 Compartments; Calculator, Conversion; Case, Tec-Tuff Elite, 16-1/2" x 12-3/4" x 7-1/4"; Crimper, Super Champ; Extension, 4"; Flashlight, Penlight, Disposable; Gauge, Feeler, .0015" - .025"; 26 Leaves; Hammer, Ball Pein; Handle, Jr., 1-1/16" x 3-1/8"; Handle, Regular; Knife, Electrician's Locking; Magnifier; Mirror, Fiberglass; Nutdriver, 5/16", 11/32", 3/8", 7/16", 1/2" Hex; Nutdriver, 9/32", Hex; Nutdriver, Hex, 3/16", 7/32", 1/4", Hex; Nutstarter, 4-40 to 5/16"; Oiler; Plier, Long Nose w/Cutter Serrated; Plier, Micro-Shear, Flush, Spring; Plier, Midget Oval Head; Plier, Vise-Grip With Curved Jaws & Wire Cutter; Punches: Drive Pin, 1/16" & Pin 1/8"; Scissor, Electrician's; Screwdriver, Torx T6, T8, T10, T15, T20, T25, Blade; Screwdriver, Phillips #0, #1, #2 Blade; Screwdriver, Slotted, 3/16", 1/8" X 2" Blade, Screwstarter, Double End Slotted & Phillips, Alum; Socket Set, 1/4" Drive 14 Pcs; Solder Wick, Anti Static; Solder, 60/40; Soldering Iron, 25W; Stripper, Wire w/Cutter; Tape Measure; Wrench Set, Combo,10 Pc Midget; Wrench, Adjustable, 4" & 8*

Model No.	Description	Qty.	Tool Kit Only 9802	Case & Pallets Only 758CA170
9802	*Electronic Tech*	1-3	$445.00	$160.00
	Engineer	4-9	$435.00	$150.00
	Tool Kit - 86 pc	10+	$425.00	$140.00

Multi Purpose Zip Kit - 70 pc

This handy DuPont Cordura® Plus Nylon Zip Kit keeps you ready for anything with two internal sections, convenient outside pockets and a diverse selection of our most requested tools. Inside, one section is open, while the other contains organized compartments. Outside, the tool case features two large gusset pockets measuring 6-1/2"W x 9-1/2"H and 12"W x 10"H–perfect for your test equipment or other larger items. With its sturdy zippers and soft carry handle, it includes a mini writing desk for work orders or notes. Dimensions: 17-1/2"L x 10-1/2"W x 4"D. (I.D.) *(Options DMM, ESD Kit and Wrist Strap not included)* **(USA)**

Tools contained in your kit: *Blades, Phillips #1 & #2 Screwdriver; Blades, Slotted 1/8", 3/16" & 1/4" Screwdriver; Case, Tool/Office Tote; Extension, 4"; Flashlight, w/Circuit Tester Flashlight Battery, (2); Handle, Regular; Hemostat, Straight; Hex Key Set, Fold-Up, 9 pcs., .050"-3/16"; Knife, #1 w/Safety Cap; Mirror; Nutdrivers, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"; Hex; Plier, Locking, 4" Long Nose w/Wire Cutter; Plier, Long Chain Nose; Plier, Micro-Shear; Plier, Retaining Ring, 6"; Internal/External; Rule; Scissor, Electrician's; Screwdriver, Offset 1/4" Slotted & #2 Phillip Screwdriver, Offset, Phil #1 & #2 Screwdriver, Phillips #0 w/Clip, Screwdriver Set Slotted .025"-.100" 7 pcs.; Screwdriver, Slotted 3/32" x 2" Blade; Screwholder, Slotted 10" For #6-8-10-12 Screws; Solder Removal Tool; Solder, Pocket-Pak; Soldering Iron, 25W; Spring Hook, Pull & Lift; Stripper, Telephone Wire Stripper, Wire w/Cutter; Torx Key, Screwdriver Set Fold-Up, Wire-Wrap, Manual, 30 AWG Strip/Unwrap Tool; Wrench Set, Ignition, 7/32"-7/16"; Wrench Set, Spline, 10 pcs.; Wrench Adjustable, 6"*

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Model No.	Description	Qty.	Tool Kit Only 7001	A. Extech DMM AC-DC 355TE760	Techni-Stat® ESD Service Kit 205ST010	Techni-Stat® Wrist Strap 691ST294	*Tec-Tuff®* Case Only 7002
7001	*Multi*	1-3	$319.00	$39.00	$39.95	$9.75	$110.00
	Purpose	4-9	$309.00	$36.00	$37.50	$9.00	$100.00
	Zip Kit - 70 pc	10+	$298.00	$32.00	$34.00	$8.45	$92.00

Master Field Engineer Tool Kit - 106 pc

Featuring our new, DuPont Cordura® zip case with padded handle. **Features:** lift out, two-pocket pallet; built-in clip board; expandable gusset pouch; three outside pockets–one 10" x 12" and two 6-1/4" x 9-1/2". **Outside Dimensions**: 18-1/2"L x 11"W x 5-1/2D". **(USA)**

Tools contained in your kit: *Alignment Kit, Battery, AA; Box, Parts, 11 & 17 Compartments; Brush, Solder; Burnisher, Contact, Burnisher, Contact, 1/4", 4" & 5"; Calculator, Conversion; Case, w/Slip-Out Box Holder; Extension, 4"; Flashlight, Penlight; Gauge, Thickness, .0015"-.025"; Hammer, Ball Pein; Handle, Regular Hemostat; Knife, Electrician's; Mirror, Inspection; Multimeter, Digital; Nutdriver, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8 7/16" Hex; Plier, Groove Joint; Plier, Long Chain Nose; Plier, Micro-Shear; Plier, Midget Chain Nose; Plier, Oval Head; Plier, Retaining Ring, Int/Ext; Punch, Center Punch, Drive Pin, Punch, Pin; Rule, Flexible Ss 6"; Scissor, Electrician's; Scratch Awl Screwdriver, Blades, Slotted, 1/8", 3/16 1/4" Screwdriver, Offset, Slot #2-#6 Screwdriver, Phillips #0 1/8" X 2" Screwdriver, Phillips #0, Pocket Clip Screwdriver, Blades, Phillips#1 & #2 Screwdriver, Phillips #2 1/4" X 1-5/16" Screwdriver Set Slotted Screwdriver Slotted 1/4" Stubby Screwdrivers, Slotted Blade 1/8" x 8", 3/32" x 2", 5/16" x 6", 5/32" x 4" Screwstarter 3/16" Blade, Quickwedge, Socket Set, 1/4" Drive, Solder Aid Tool, Fork & Hook; Solder-Aid Tool, Reamer & Scraper; Solder Wick; Solder 60-40" Soldering Iron, 25W Spring Hook, Pull & Lift Stripper 5-in-1 Tool Stripper Wire w/Cutter, Tweezers, Filament Holder, Wrench Set, Hex & Spline, Wrench Set, Ignition, 7/32"-7/16"; Wrench Adjustable, 4" & 8"*

Model No.	Description	Qty.	Tool Kit Only 9603	Case & Pallets Only 238CA888
9603	*Master Field*	1-3	$435.00	$119.00
	Engineer	4-9	$425.00	$109.00
	Tool Kit - 106 pc	10+	$409.00	$99.00

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Computer Technician Tool Kit - 72 pc

Computer installation and repair takes specialized knowledge and specialized tools, but leaving a customer to get a missing tool can send an already frustrated computer user over the edge. This 72 piece kit preserves everyone's sanity by storing the tools and test equipment you need in an organized case. One side of the Brown DuPont Cordura® Nylon Case holds your tools in 34 handy pockets. The other side features a pen holder, document portfolio and legal pad holder for jotting notes and holding important papers. 17"L x12"W x 5"D (I.D.) **(USA)**

Tools contained in your kit: *Alignment Tool; Blade, Phillips #1 & #2 Screwdriver; Blade, Slotted, 3/16 . 1/4", 5/16" Screwdriver; Case/Attache, Tool, Brown Cordura; Crimper, Super Champ; Extension, 4 . Extractor, DIP 4-48 PIN; Extractor, PLCC; Flashlight, Penlight; Handle, Junior; Handle, Regular; Key Cap Remover; Mat, ESD Work Surface Kit; Nutdrivers, 1/4", 3/8", 5/16", 7/32", 9/32 11/32", Hex; Plier, Diagonal, Oval; Plier, for Copper Wire; Plier, Ignition, Midget; Plier, Locking Long Nose, Wire Cutter; Plier, Long Nose with Cutter; Puller, Circuit Board Puller, Fuse, Midget, Non-Slip; Rule; Scissor, Electrician's; Screwdriver, Offset Slotted 1/4" & Phillips #2; Screwdriver, Phillips #0 w/Pocket Clip Screwdriver Set, Slotted, 7 pc; Screwdriver, Slotted 3/32x3" Blade with Clip; Screwstarter, 3/16" Blade, Quickwedge; Solder Iron, 25W, Solder, Pocket-Pak; Solder Wick, Anti Static; Stripper, Wire with Cutter; Spring Hook, Pull & Lift; Stat-Gard, ESD Grounding System; Tester, Telecheck Modular Phone Line; Tweezer, Filament Holder; Wrench, Adjustable, 4"; Wrench, Adjustable 8"; Wrench Set, Hex & Spline; Wrench Set, Ignition w/Pouch*

Techni-Tool Exclusives!

Model No.	Description	Qty.	Tool Kit Only 9717	*Tec-Tuff®* Case Only 117CA022
9717	*Computer*	1-3	$420.00	$99.00
	Technician	4-9	$410.00	$94.00
	Tool Kit - 72 pc	10+	$398.00	$85.00

PC Maintenance Kit - 38 pc

Created for the repair and maintenance of personal computers, video terminals, etc. This 38 piece, first quality tool kit is packaged in our new Gray DuPont Cordura® Nylon zip kit with 15 pockets. The case has a rugged zipper and padded sides. Dimensions: 9-1/2"L x 7-1/2"W x 2-1/2"D (I.D.). **(USA)**

Tools contained in your kit: *Blade, Slotted 1/4", Screwdriver; Blade, Phillips #1; Blade, Slotted 1/8" Blade Set; Case, Zipper; Flashlight, Penlight, Disposable; Hammer, Set w/6 Tips & Metal Handle, 7", Handle, Regular; Hex Key, Set, Fold-Up, .050 to 3/16"; Knife, #1 w/Safety Cap; Magnifier, 2x, w/Case, Plier, Long Chain Nose - Serrated, 5.5" OAL., Spring; Plier, Midget Oval Head, 4" OAL; Rule, inch, Flexible SS, 6", pocket Clip; Screwdriver, Set (6 Pc.) With Awl; Solder Wick Anti-Static Anti Sata Bobbin 2.5"; Solder, 60/40 Pocket-Pak .031"; Soldering Iron, 25W, 1/8" Diam. Tip; Tweezers, Boley Style Nickel Plated Type AA; Wrench, Adj, 6" Chrome w/Cushion Grip.*

Model No.	Description	Qty.	Tool Kit Only 9442	*Tec-Tuff®* Case Only 336CA9441
9442	*PC Maintenance*	1-3	$130.00	$35.00
	Kit - 38 pc	4-9	$119.00	$29.00
		10+	$109.00	$24.00

Electronic Compact Zip Tool Kit - 30 pc

Installation, adjustments and repair of office and laboratory products become quick and easy with this 30 piece, first quality tool kit. Packaged in our new Black DuPont Cordura® Plus Nylon 28 pocket zip kit. This tool kit provides a useful assortment of tools without the bulk of a standard tool kit. The case has padded web handles, a heavy-duty zipper, "D" rings for a shoulder strap and slash pockets for documents and manual storage. Dimensions: 13-1/4"L x 10-1/4"W x 3-3/4"D (I.D.). **(USA)**

Tools contained in your kit: *Blade, Phillips #1; Blade, Slotted, 1/4" &1/8"; Screwdriver, Phillips #0 Case, Zipper, Cordura II; File Set, Assorted, 3 pc; Flashlight, Penlight; Hammer, Ball Pein, 4 oz.; Iron Soldering, 25w; Nutdriver, Hex 1/2"; 1/4", 3/16", 3/8", 5/16", 7/16", 7/32", 9/32", 11/32"; Plier, Long Nose w/Cutter; Solder Wick, Anti Static; Soldapult; Stripper, Wire w/Cutter; Wrench Set, Hex & Spline Wrench, Adjustable, 6*

Model No.	Description	Qty.	Tool Kit Only 9448	*Tec-Tuff®* Case Only 336CA9447
9448	*Electronic*	1-3	$160.00	$60.00
	Compact Zip	4-9	$158.00	$52.00
	Tool Kit - 30 pc	10+	$148.00	$47.00

Electronic Field Engineer Tool Kit - 108 pc

This kit is enclosed in rotationally molded dense Polyethylene; fine textured surface; built-in strengthening ribs; aluminum frame w/combo lock and ergonomically-comfortable padded handle, and the case comes in your choice of 7" or 12" depths. It has two pallets, locking Franzen latches, security combination locks and more. **(USA)**

Tools contained in your kit: *Alignment Kit-6" - "K"; Anti-Static Solder Wick; Awl, Scratch; Blades, Phillips: #1, #2; Blades, Slotted: 1/8", 1/4", 3/16"; Burnisher Set, Contact, 3 Pc; Calculator, Conversion; Case, Roto-Tec; Electrician Knife; Extension, 4"; Flashlight & Batteries; Fork & Hook Solder Aid Tool; Hammer, Ball Pein, 4 oz.; Handle, Regular for Snap-in blades; Handle, Tee for Snap-in blades; Hemostat, 5-1/2" OAL; Mirror, Inspection; Nutdriver, Hex: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"; Oiler, Needle Point; Plier, Groove Joint, 10"; Plier, Long Chain Nose; Plier, Long Nose Serrated; Plier, Micro Shear; Plier, Oval Head; Plier, Retaining Ring; Punch, Center 3/32"; Punch, Drive Pin 1/16"; Punch, Pin, 1/8"; Reamer & Scraper Solder Aid; Rule, Inch & Wire Gauge; Scissor, Electricians; Screwdriver, Offset, Slot #2-#6; Screwdrivers, Phillips: #0, #2; Screwdrivers, Slotted: 1/8" x 8", 3/32" x 2", 5/16" x 6", 5/32" x 4"; Screwdriver, Slotted 1/4" Stubby; Screwdriver Set, Slotted, 7 pc Set; Screwstarter, 3/16" Blade; Socket Set, 1/4" Driver - 14 pcs.; Solder Brush; Solder, 60/40; Soldering Iron, 25W; Spring Hook, Lift; Stripper w/Wire Cutter; Stripper, 5-in-1, "K"; Thickness Gauge; Tweezer, Filament Holder; Tweezer, Self-Locking; Wrench, Adjustable: 4" & 8"; Wrench Set, Hex & Spline; Wrench Set, Ignition 7/32" thru 7/16"; 7 pc.*
Dimensions: **17-3/4"L x 14-1/2"W x 7"D (I.D.). **17-3/4"L x 14-1/2"W x 12"D (I.D.).*

Add to Any Tool Kit!

Metric Conversion Kit - 50 pc

Double your capacity to service products. The 7611, supplied in a corrugated mailer, will fit easily into the bottom of your tool case.This kit contains 50 metric items: Handle Hex Wrench Set,1.27-6mm (10 pc.); Gauge, Feeler Ignition; Wrench Set, 7 pc.; Nutdrivers, 4mm, 4.5mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm; Rule, 6"; Metric Socket Set 1/4" Driver, 4mm-12mm (14 pc); Wrench Set Combo, 7 pc.

No. 7611..... (1-3) **$160.00** (4-9) **$155.00** (10+) **$147.00**

Model No.	Description	Qty.	7" Tool Kit Only* 9425-7	12" Tool Kit Only** 9425-12	7" Case & Pallets Only* 758CA907	12" Case & Pallets Only** 758CA912
9425	*Electronic Field*	1-3	$445.00	$455.00	$155.00	$165.00
	Engineer Tool Kit	4-9	$430.00	$445.00	$146.00	$156.00
	108 pc	10+	$421.00	$436.00	$135.00	$145.00

"Customize any tool kit to fit your needs!"

Electronic System Service Kit - 101 pc

Our I-Beam™ case is made of specially-engineered, .165" thick, high-density, molded structural polyethylene to give you a case that won't sag in the center or punch through at the corners or the molded-in feet. Next, we add an extra-wide, anodized aluminum valance; deep-set to prevent valance separation during use. Then we add: a full-length piano hinge; ball-bearing, locking-lid stays so the lid stays open, even when filled with tools; extra-wide top and bottom pallet supports; rigid, non-flex, pallets that are hand-sewn, riveted and neatly finished; a comfort-padded handle; and two re-designed, heavy-duty locking latches. Techni-Tool® builds tool cases that last. For basic electrical, telecommunications and security work. Other options and variations to this tool kit are available. **(USA)**

Tools contained in your kit: *Alignment Kit, 6"; Awl; Battery, AA Size (2); Blades, Allen Hex: 5/16, 11/32, 3/8, 7/16, 1/2, 3/16, 7/32, 1/4, 7/32; Brush, Solder; Burnisher, Contact, (3); Case, Black, w/2 Pallets; Flashlight, Penlight; Gauge, Thickness; Hammer, Ball Pein; Hemostat, Straight; Knife, Electrician's Locking; Mirror; Oiler; Plier, Groove Joint, 10"; Plier, Long Nose Serrated; Midget Oval Head Plier; Oval Head Plier; Slip Joint Plier; Probe, #1, Pointed; Probe, #17, Angled; Probe, #6; Angled Punch, Drive Pin 1/16" ; Rule; Scissor, Electrician's; Screwdriver, Phillips, #0, 1/8" x 2"; #0 w/Pocket Clip; #1, 3/16" x 3"; #2, 1/4" x 4"; #2, 1/4" x 1-5/16"; Screwdriver, Set Slotted .025"-.100" 7 pc.; Screwdriver, Slotted 1/4 Stubby; Screwdriver, Slotted 3/32" x 2", 1/8" x 3", 1/4" x 4"; 5/16" x 6" Blade; Screwstarter, Quickwedge 3/16" Blade; Socket Set, 1/4" Drive, 14 pc.; Solder Aid Tools, Fork & Hook; Solder Aid Tool, Reamer & Scraper; Solder Wick; Solder, Pocket-Pak; Soldering Iron, 25W; Stripper, Wire w/Cutter; Tweezers; Wrench Set, Hex & Spline, 12 pcs.; Wrench Set, Ignition, 7/32" - 7/16", 8 pcs.; Wrench, Adjustable, 4", 8"* ***Dimensions:****17-3/4"L x 12-1/2"W x 7"D (I. D.).*

Model No.	Description	Qty.	Tool Kit Only 9404	Case & Pallets Only 336CA9403
9404	*Electric System*	1-3	$430.00	$140.00
	Service Tool Kit	4-9	$420.00	$130.00
	101 pc	10+	$399.00	$119.00

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

A. Electronics Millenium™ Tool Kit - 52 pc

When you travel to provide electronics service in the field, space is a precious commodity. When you choose our new Tec-Tuff® Millenium™ Case, made of 1000 Denier DuPont Cordura® Plus, you won't have to leave things behind. This Techni-Tool® exclusive design includes seven spacious pockets. Inside you'll find Velcro™-close padded compartments for your: laptop, papers, cell phone, or personal items; and in the case bottom, a special protected pocket holds your test meter. Additional features include: a two-sided vertical, hand-sewn Novalux® tool pallet; oversized YKK zipper; polyurethane piping reinforced high-wear areas; padded comfort handles; and large outside document pocket. I.D. 20-3/4"L x 13-1/2"W x 6"D. The kit includes a special selection of fine electronics field service tools. **(USA)**

New!

TEC-TUFF

Tools contained in your kit: *Adjustable Wrenches: 4", 8"; Ball Pein Hammer; Circuit Tester; Curved Locking Plier; Double Ended Screwstarter; Electricans Scissors; Electricians Knife; Female-to-Female Gender Changer; Groove Joint Plier; Hex Nutdriver: 5/16", 3/8", 3/16", 1/4"; Inch & Decimal Tool: Infinite Parts Box: 11 x 6-3/4" Poly Box; Inspection Mirror; Long Nose W/ Cutter Plier; Male-to-Male Gender Changer; Midget Oval Plier; Mini-Alignment Tool; Mini-Mag Flashlite; Oval Diagonal Plier; Phillips Screwdriver #0 with pocket clip; Phillips Screwdrivers: #0, #1, #2; Pull & Lift Spring Hook, 24" x 24"; Screwdriver 5/16" x 6"; Slip-Joint Plier; 1/4" x 10"; Slotted Screwdrivers: 1/4" x 4", 1/8" x 4", 3/32" x 3"; Solder, 60/40; Soldering Iron, 25W; Straight Hemostat; Subminiature Plier; 7/8"; Tape Measure; Techni-Stat Mat; Three Burnishers; Torx Screwdrivers: T-8, T-10, T-15, T-20, T-25; Wheeled Cordura Case; Wire Stripper.*

Model No	Description	Qty.	Tool Kit 9902	Zip Case Only 336CA390
9902	*Electronics*	1-3	$565.00	$250.00
	Millennium Tool	4-9	$545.00	$243.00
	Kit - 52 pc	10+	$525.00	$237.00

Reverse Side of Pallet

A

B

A

B. Tec-Tuff® Overnighter™

Carry it or slip it over the handle of your Wheely™ case. The Tec-Tuff® Overnighter™ case is made of the same rugged DuPont Cordura® Plus ballistic nylon and can be placed in an airline overhead or under your seat. This generous overnight case can hold your change of clothes or documents. The inside dimensions are 17"H x 13-1/2"W x 7"D and includes a comfort padded handle. **(USA)**

No. 336CA435..... (1-3) $85.00
(4-9) $75.00
(10+) $69.00

B

Field Engineer's Portable Tool Kit - 65 pc

Today's hi-tech devices require expert maintenance technicians who use only a few key tools. The DuPont Cordura® Plus Nylon Case is built to provide space for tools in the first section and a finished attache case, with pen holder, document portfolio and legal pad holder in the second. Both sections are separated by a twin zipper. The tool section contains 34 pockets. Dims: 17"W x 12"H x 5"D with one large padded outside covered pocket 14-1/2" x 10", gusseted to expand to 2-1/2" and two smaller pockets on the outside 6-3/4" x 10", gusseted to expand to 2-1/2". **(USA)**

Tools contained in your kit: *Alignment Tool, 6": Case, Tool, Brown Cordura; Flashlight, Penlight; Handle, Regular; Hemostat, Straight; Hex Key Set, Fold-Up, 9 pcs. .050"-3/16"; Insertion/Extraction Tool; Knife, #1 w/Safety Cap with 5 pack blades; Magnifier; Meter, Pen Size Autoranger Circuitmate; Nutdrivers, 3/16", 7/32", 1/4", 9/32", 5/16", 3/8", 7/16" Hex; Patch Cord, Minigrabber Each End, 12", Black; Patch Cord, Minigrabber Each End, 18", Red; Plier, Locking-Curved Jaw; Plier, Long Chain Nose; Plier, Midget Oval Head; Rule; Scissor, Embroidery; Screwdrivers, 4-in-1 #1, 2 Phil, 1/4", 3/16" Slot; Screwdriver, Phillips #0 w/Pocket Clip; Screwdriver, Set Slotted .025"-.100" 7 pcs.; Screwdriver, Slotted 3/32" x 2" Blade; Screwdriver, Torx, 5 Bits, Magnetic, T15-T30, 8" OAL; Screwholder, Slotted, 3" For 6-8-10-12 Screws; Solder Wick; Solder, Pocket-Pak; Soldering Iron, 25W; Stripper, Cable, Coaxial; Stripper, w/Crimper, Coax Rg-59 & Rg-6; Stripper, Wire w/Cutter; Tester, Circuit, 3-Wire, 125V; Tester, Telecheck Modular Phone Line; Tweezer, Angular Filament Holder; Wrench, Adjustable, 6"; Wrench Set, O.E., Metric, 5.5mm-11mm; Wrist Strap, Adj. 6" Coil Post Snap Alligator Clip.*

Model No.	Description	Qty.	Tool Kit Only 7622	Case & Pallets Only 117CA022
7622	*Field Engineer's*	1-3	$430.00	$99.00
	Portable	4-9	$415.00	$94.00
	Tool Kit - 65 pc	10+	$399.00	$85.00

Laboratory Service Roll Up Kit - 25 pc

This 25 piece kit provides the essential tools for common maintenance and adjustment required by modern research & development. Comes in a rugged vinyl pouch for unequalled storage utility. **Kit includes:** straight lock-type hemostat; 7-pc hex key set; knife #1 w/safety cap; electrician's knife; inspection mirror; midget nutdrivers (1/4", 5/16"); pliers: long chain nose serrated (5.5" OAL); oval head (5" OAL) and Tec-Cut short nose; vinyl pouch with 26 pockets; stainless 6" rule; straight scissor (4-1/2"); Phillips #0, #1 screwdrivers; slotted screwdriver set-7 pc (.025"-.100") slotted screwdrivers (3/16, 3/32); slotted screwstarter (5-5/8"); 60/40 solder; soldering iron, 25W; wire stripper w/cutter (10 AWG); tweezers, filament holder (6"); adjustable wrench (6"); long chain nose serrated plier (5.5" OAL); oval-head plier (5" OAL); Tec-Cut short nose plier.

No. 8652 Tool Kit ..... **(1-3) $125.00 (4-9) $119.00 (10+) $109.00**
No. 826 Pouch only ..... **(1-3) $19.00 (4-9) $15.00 (10+) $13.00**

Roll Up Tool Kit - 31 pc

A very convenient way to add or carry the few tools necessary for quick jobs—at home, in the office & in the field. This **31 piece kit** will help you in those small situations where few tools will do the job. **Kit includes:** 4" snap-in extension; holder; electrician's' knife; roll-up pouch; penlight w/batteries; chain nose 4" plier; diag. cutter 5" plier; long nose plier w/side cutter; vise grip 7" plier; stainless 6" rule; screwdriver handle; screwdriver blades, (1/8", 1/4", 5/16", Phillips #1, #2); mini Phillips #0 screwdriver; solder aid; 25W soldering iron; wick; wire stripper;adjustable 6" wrench; 6 pc. Hex wrench set.

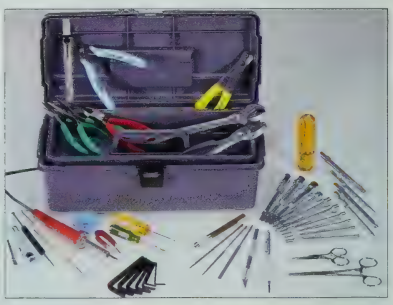
No. 8542 Tool Kit..... **(1-3) $130.00 (4-9) $125.00 (10+) $119.00**
No. 826 Pouch only ..... **(1-3) $19.00 (4-9) $15.00 (10+) $13.00**

General Utility Repair Kit - 25 pc

Sleek, versatile and compact, this general utility repair kit contains 25 of the tools you reach for the most to handle general utility repairs in the shop, office, or in the field. Bought separately or included in a full-size kit, your quality Cooper Tool selection is housed in a convenient, vinyl, zipper case that folds to a convenient size of 7-3/4"W x 14"L x 2-5/8"H. (O.D.) **(USA)**

No. 9900..... (1-3) **$130.00** (4-9) **$124.00** (10+) **$115.00**

Electronic Assembler's Tool Kit - 54 pc



This 54 pc set of top-quality tools comes in a lockable poly case. Modify to fit your needs. Ask about our Design-a-Kit. Dimensions: 14-1/2"L x 7-1/2"W x 5-1/4"D. Calculator, E/M Extension, 4"File Set, 3 pc. with Handle Handle, Reg. Snap-in Heat Sink Hemostat 5-1/2" Hex Key Set Nutdrivers, Blades, 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 1/2", 7/16" Knife w/Assorted Blades Plier, Diagonal 5" Plier, Chain Nose 4-3/4"

No. 7602 ..... (1-3) **$156.00** (4-9) **$149.00** (10+) **$139.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Large Capacity Triple Section Case

This case will carry 40 tools plus paperwork. Test equipment, spares or a laptop may be carried in the protected center section. Plus has a flap pocket for a multimeter, and pouch for small items.
18"L x 12"W x 8"D. **(USA)**

A. No. 336CA9501 ..... **(1-3) $120.00**
(4-9) $110.00
(10+) $99.00
No. 336CA9503 Grey..... **(1-3) $120.00**

Field Engineers Double Zipper Case

Designed for field engineers, managers, and supervisors, nothing compares in quality and strength. One full-sized pocket and two half-sized pockets on the case outside are for spare parts, boxes, etc. Inside, Novalux pockets hold 40 tools, a multimeter pouch, and a small items pouch. D-rings provided for optional shoulder strap.
18"L x 10.75"W x 4.5"D. **(USA)**

B. No. 336CA145..... **(1-3) $115.00**
(4-9) $109.00
(10+) $99.00

Telecom Case

Designed for telecom and data communication field service engineer/ technicians. Has 25 Novalux tool pockets, a butt set strap, a meter pouch, and a pouch for small items. The one full-size, and two half-size, external pockets generously accommodate paper work and spares. 14"L x 11"W x 4"D. **(USA)**

C. No. 336CA147..... **(1-3) $69.00**
(4-9) $65.00
(10+) $59.00

Electronic Field Service Case

This handy case will hold up to 40 popular tools and a multimeter in the inside, plus more storage on the outside - a large pocket, and two smaller pockets. Has tri-rings for an optional shoulder strap, and an extra strong Novalux tool pockets, with bonded leather pocket flap accents. 15.5"L x 11.25"W x 2.5"D. **(USA)**

D. No. 336CA148..... **(1-3) $69.00**
(4-9) $65.00
(10+) $59.00

Rotationally Molded Wheeled Tool Case

The Wheeled Tool Case is a 9" deep tool case, with a four stage completely retractable industrial grade-telescoping handle with lock button. Using a four stage handle means that the tools don't migrate out of their pockets when being carried or wheeled. The steel bearing rubber wheels are widely spaced for stability and greater carrying capacity.
17.75"L x 14.25"W x 9"D. **(USA)**

E. No. 336CA146 ..... **(1-3) $199.00**
(4-9) $189.00
(10+) $179.00

Master Telecom Zip Case

Your case features: DuPont Cordura® Plus Nylon, heavy-duty zipper, Poly web straps, leather-wrapped handles, detachable shoulder strap, two exterior pockets and document pocket. The interior has 24 tool pockets, velcro handset holder, & five small parts pouches. Dim: 15"L x 12-1/2"W x 3-1/2"D. (I.D.) **(USA)**
No. 658CA085..... (1-3) **$130.00** (4-9) **$120.00** (10+) **$114.00**

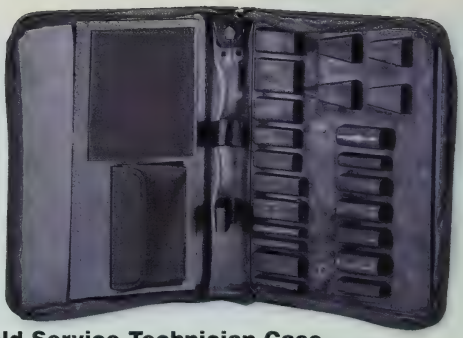
Basic Telecom Zip Case

Case features: DuPont Cordura® Plus Nylon, heavy-duty zipper, Web straps with leather-wrapped handles, detachable shoulder strap, exterior meter pockets, and literature pocket. Interior (designed by Southern Bell) features velcro handset holder, 15 sewn tool pockets, and six small parts pouches.
Dim: 14"L x 13"W x 3"D. (I.D.) **(USA)**
No. 658CA675..... (1-3) **$99.00** (4-9) **$92.00** (10+) **$86.00**

TelcomTech Zip Tool Case

This DuPont Cordura® Plus Nylon case measures 18"L x 13"W x 3"D. (O.D.) One side of the case has two outside gusseted pockets, one 10-1/2"W x 12"H, and one 6-1/4"W x 12"H. The other side of the case has a 18-1/2"L x 7-1/2"W open pocket for incidental papers. **(USA)**

Description	Qty.	Black 658CA670	Burgundy 658CA672	Teal 658CA674
TelcomTech	1-3	$112.00	$112.00	$112.00
Zip Tool Case	4-9	$101.00	$101.00	$101.00
	10+	$95.00	$95.00	$95.00



Field Service Technician Case

This case features: DuPont Cordura® Plus Nylon, heavy-duty zipper, Web straps with leather-wrapped handles, two exterior meter pockets & one literature pocket. Interior has 22 molded tool pockets & two snap pockets. Dim: 18"L x 13"W x 2-3/4"D.(I.D.) **(USA)**
No. 658CA665 ..... (1-3) **$99.00** (4-9) **$92.00** (10+) **$83.00**

MiniTech Compact Zip Case

Black DuPont Cordura® Plus Nylon fiber exterior & industrial zipper. 16 interior tool pockets & one pouch. Dimensions: 10"L x 7"W x 2"D. (I.D) **(USA)**
No. 658CA601..... (1-3) **$39.00** (4-9) **$35.00** (10+) **$29.00**

ComputerTech Zip Case

One side of the DuPont Cordura® Plus Nylon Case holds your tools in 34 handy pockets. The other side features a pen holder, document portfolio and legal pad holder for jotting notes and holding important papers. Your expert knowledge and this kit work together to provide efficient service.
Dim: 17"L x 12"W x 5"D. (I.D.) **(USA)**

Description	Qty.	Brown 117CA022	Black 117CA153
ComputerTech	1-3	$99.00	$99.00
Zip Case	4-9	$94.00	$94.00
	10+	$85.00	$85.00

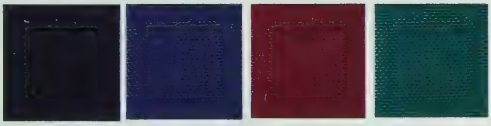
TEC-TUFF

"Cordura is a registered trademark of DuPont".

Master Technician V Zipper Tool Case

Features 1000 denier DuPont Cordura® Plus Nylon fabric with three exterior pockets. Interior has 47 sewn tool pockets and a meter pouch. Shoulder strap included for easy carrying. 15"L x 11"W x 2"H (I.D.). **(USA)**

Description	Qty.	Black 658CA669	Burgundy 658CA0669	Blue 658CA0670	Teal 658CA0671
Master Technician	1-3	**$99.00**	**$99.00**	**$99.00**	**$99.00**
V Zipper Tool Case	4-9	**$85.00**	**$85.00**	**$85.00**	**$85.00**
	10+	**$78.00**	**$78.00**	**$78.00**	**$78.00**



Black Blue Burgundy Teal

A

A. Electronics VII Zipper Case

Its a tool case. Its a brief case. This specially designed field service case is made from 1000 Denier DuPont® Cordura® Plus ballistic nylon. One side features 43 tool pockets; one side a built-in clip board and document pouch; and the center, a wide 4-1/2"W x 17"L x 11"D pocket to hold your service manual, parts or an overnight change of clothes. Colors: Black or Gray. **(USA)**

B. Denim Zipper Tool Case

Carry your tools with ease in this blue denim tool case. The inside is divided into two sections: one side has 47 molded tool pockets and one closeable velcro pocket; the other side features a clip board, pull-out pallet with two closeable velcro pockets, and one side pocket to hold literature. The outside features three convenient pockets. **(USA)**

Description	Qty.	Black 336CA9501	A. Gray 336CA9503	B. Denim 336CA269
Zipper	1-3	**$120.00**	**$120.00**	**$120.00**
Cases	4-9	**$110.00**	**$110.00**	**$110.00**
	10+	**$99.00**	**$99.00**	**$99.00**

B

Ultima VI Zipper Tool Case

The ultimate alternative to the traditional briefcase.This Black, DuPont Cordura® Plus Nylon fabric case features two spacious 2-1/2"W zippered compartments with side pockets, inside file folder pocket. Two outside flapped pockets. (One zippered pocket). Identification pocket for business cards. Zips from top. Dual zipper pulls. Removable. shoulder strap with ergonomic shoulder pad. Dim: 14-1/2"L x 11"W x 5"D (I.D.). **(USA)**

No. 117CA720..... (1-3) **$109.00** (4-9) **$99.00** (10+) **$88.00**

Ultima I Catalog Case

Black, DuPont Cordura® Plus Nylon fabric case. Includes four custom outside pockets. Inside has partition, key chain holder and zipper pouch. Top has drop-down feature. Heavy-duty shoulder strap with web strap combination lock. Padded handle. Dim: 18"L x 7.5"W x 13"D (I.D.). **(USA)**

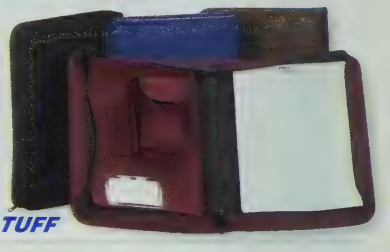
No. 117CA911..... (1-3) **$135.00** (4-9) **$129.00** (10+) **$119.00**

A Techni-Tool Exclusive!

Tec-Tuff® Field-Tech-Planner™

Specially designed and produced by Techni-Tool®, the Tec-Tuff® Field-Tech-Planner™ is designed to house your 8-1/2" x 5-1/2" day planner. Made of heavy-duty DuPont Cordura® Plus nylon, the spacious interior has an easy-open 1-5/8" three ring binder, two full width 7" pockets, front and back, two leather business card holders, and a YKK dual-zipper closure. 11"L x 8-1/4"W x 2-1/4"D. **(USA)**. *(Planner not included)*

No. 117CA100 Black **$28.00**
No. 117CA101 Burgundy **$28.00**
No. 117CA102 Navy **$28.00**
No. 117CA103 Green **$28.00**



Tec-Tuff® Field-Tech-Folio™

Specially designed and produced by Techni-Tool®, use this portfolio as your portable field office. Made of heavy-duty DuPont Cordura® Plus nylon, the spacious interior has a 1" deep pocket for file folders and work orders, pen and mini-flashlight pockets, two business card holders, cellular phone pocket, right/left reversible – use 8-1/2" x 11" pad, and dual-zipper closure. The outside features a convenience pocket and leather-trim carry handle. 13-1/2"L x 10"W x 2-1/2"D. **(USA)**.

No. 117CA200 Black **$45.90**
No. 117CA201 Burgundy **$45.90**
No. 117CA202 Navy **$45.90**
No. 117CA203 Green **$45.90**

Pick Your Case...
Pick Your Pallet...
Pick Your Tools!

Design-A-Kit® Zipper Case

These Black DuPont Cordura® zipper tool cases are designed to hold the tool pallets shown below. The 658CA651 single zipper holds two pallets. The 658CA652 double zipper holds four pallets. Your pallets are held in place by industrial Velcro® tabs. Simply remove the backing and attach the pallet. Pallets not included. 17-1/2"L x 12-1/2"W x 3"H or 6"H **(USA)**

Description	Qty.	3" 658CA651	6" 658CA652
Design-A-Kit®	1-3	$80.00	$136.00
Zipper Case	4-9	$75.00	$130.00
	10+	$69.00	$119.00

Design-A- Kit® Pallets

These heavy-duty pallets are specially designed to handle everyday use in the field. The pallets are cut and sewn Novalux with a heavy-duty nylon binding. Pick the pallet of configuration that best fits your need...or pick the best top and bottom pallet.

Computer Field Service Pallets
A. No. 658CA0005 Top $26.40
B. No. 658CA0006 Bottom $26.40

Electronic Service Pallets
C. No. 658CA0007 Top $26.40
D. No. 658CA0010 Bottom $26.40

Appliance Maintenance Pallets
E. No. 658CA001 Top $26.40
F. No. 658CA0002 Bottom $26.40

Office Machine Service Pallets
G. No. 658CA0003 Top $26.40
H. No. 658CA0004 Bottom $26.40

Telecommunication Service Pallets
J. No. 658CA009 Top $26.40
K. No. 658CA0010 Bottom $26.40

Wing Pallet Set
(Not Available in Soft Sided Case)
L. No. 758CA371 Top & Bottom $77.95

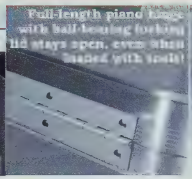
Tec-Tuff® cases are made of specially-engineered. 3/8" thick, high-density, structural polyethylene, heat-molded under pressure to give you a case that won't sag in the center or punch through at the corners or the molded-in feet. Then, we add an extra-wide, re-enforced anodized aluminum valance; deep-set to prevent valance separation during use. Next we add: a full-length piano hinge; two ball-bearing, locking-lid stays so the lid stays open, even when filled with tools; extra-wide top and bottom pallet supports; ridged, non-flex, pallets that are hand-sewn, riveted and neatly finished; a comfort-padded handle; and two re-designed, heavy-duty locking latches, or normal wear. **(USA)**

A Techni-Tool Exclusive!

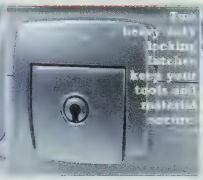
Deluxe Classic

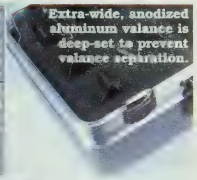
Choose from Black or Silver in three depths– 6", 8" and 10", with two pallets. Each case measures 18-1/2"L x 13-1/2"W.

Extra-wide top and bottom pallets to provide additional support for your tools.


Full-length piano hinge with ball-bearing locking lid stays open, even when loaded with tools!

Rigid, molded-in feet and hand finished hardware.


Two heavy duty locking latches keep your tools and material secure.


Extra-wide, anodized aluminum valance is deep-set to prevent valance separation.

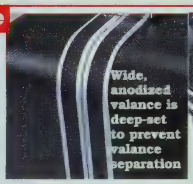
TEC-TUFF

Model	Description	Qty.	6" Silver Case Only 658CA970	6" Black Case Only 658CA972	8" Silver Case Only 658CA974	8" Black Case Only 658CA976	10" Silver Case Only 658CA982	10" Black Case Only 658CA984
Two Pallet Case	*Tec-Tuff®*	1-3	$155.00	$155.00	$165.00	$165.00	$170.00	$170.00
	Deluxe Classic Case	4-9	$149.00	$149.00	$155.00	$155.00	$165.00	$165.00
		10+	$140.00	$140.00	$151.00	$151.00	$149.00	$149.00

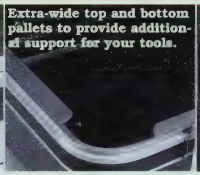
Model	Description	Qty.	8" Silver Case Only 658CA978	8" Black Case Only 658CA980	10" Silver Case Only 658CA986	10" Black Case Only 658CA988
Three Pallet Case	*Tec-Tuff®*	1-3	$165.00	$165.00	$170.00	$170.00
	Deluxe Classic Case	4-9	$155.00	$155.00	$165.00	$165.00
		10+	$151.00	$151.00	$149.00	$149.00

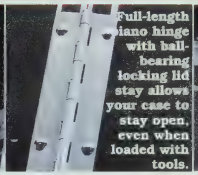
I-Beam™ Case

Each case measures 18-1/2"L x 13-1/2"W - (I.D.) In your choice of Black or Silver.


Wide, anodized valance is deep-set to prevent valance separation

Rigid, molded-in feet and hand finished hardware.

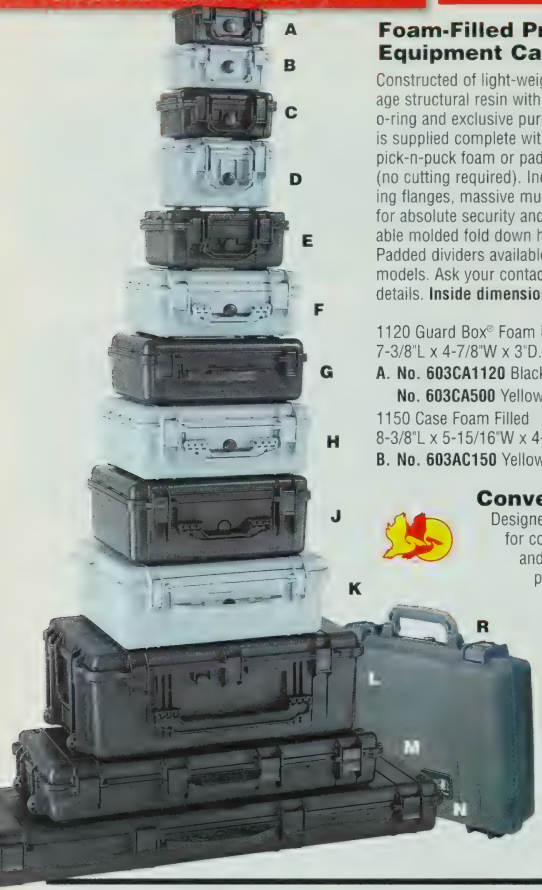

Extra-wide top and bottom pallets to provide additional support for your tools.


Full-length piano hinge with ball-bearing locking lid stay allows your case to stay open, even when loaded with tools.

Heavy-duty latches keep your tools secure.

TEC-TUFF

Description	Qty.	5" Black Case 2 Pallets Only 336CA6232	5" Silver Case 2 Pallets Only 336CA6231	7" Black Case 2 Pallets Only 336CA6234	7" Silver Case 2 Pallets Only 336CA6233	9" Silver Case 3 Pallets Only 336CA6235
Tec-Tuff®	1-3	$130.00	$130.00	$135.00	$135.00	$155.00
I-Beam Case	4-9	$125.00	$125.00	$129.00	$129.00	$148.00
	10+	$119.00	$119.00	$126.00	$126.00	$139.00



Foam-Filled Protector Equipment Cases

Constructed of light-weight space age structural resin with a neoprene o-ring and exclusive purge valve case is supplied complete with pre-scored pick-n-puck foam or padded dividers (no cutting required). Includes locking flanges, massive multiple latches for absolute security and a comfortable molded fold down handle. Padded dividers available in some models. Ask your contact person for details. **Inside dimensions shown.**

1120 Guard Box® Foam Filled
7-3/8"L x 4-7/8"W x 3"D.
A. No. 603CA1120 Black.. **$20.60**
No. 603CA500 Yellow .. **$20.60**

1150 Case Foam Filled
8-3/8"L x 5-15/16"W x 4-1/8"D
B. No. 603AC150 Yellow.. **$25.40**

1200 Case Foam Filled
9-3/8"L x 7-15/16"W x 4-1/8"D.
C. No. 603CA120 Black.... **$36.35**
No. 603CA0120 Silver.. **$36.35**

1300 Case Foam Filled
9-3/8"L x 7-15/16"W x 6-1/4"D.
D. No. 603CA1300 Black **$43.80**

1400 Case™ Foam Filled
12"L x 9-1/8"W x 5-1/8"D.
E. No. 603AC014 Black.... **$66.45**
No. 603CA140 Silver .. **$66.45**
No. 603CA1400 Orange **$66.45**

1450 Case Foam Filled
14-15/16"L x 10-1/2"W x 6-1/16"D.
F. No. 603CA1450 Black.. **$85.85**
No. 603CA0410 Orange **$85.85**

1500 Case Foam Filled
17"L x 11-1/2"W x 6-1/4"D.
G. No. 603CA015 Black.... **$100.15**
No. 603CA150 Silver.... **$100.15**

1520 Case Foam Filled
17-15/16"L x 12-3/4"W x 6-1/4"D.
H. No.603CA521 Black **$110.00**

1550 Case Foam Filled
18-7/8"L x 14-1/2"W x 7-13/16"D.
J. No. 603CA550 Black.... **$125.20**

1600 Case Foam Filled
21-5/8"L x 16-7/8"W x 7-7/8"D.
K. No. 603CA160 Silver .. **$148.25**
No. 603CA1600 Black.. **$148.25**

1600 Case No Foam
No. 603CA060 Black.... **$122.80**

1650 Case
28-3/4"L X 17-7/8"W x 9-3/4"D.
L. No. 603CA0650 Black.. **$217.20**

1700 Travel Vault II® Foam Filled
35-3/4"L x 13-3/4"W x 5-1/4"D.
M. No. 603CA1700 Black.. **$170.45**

1750 Travel Vault II® Foam Filled
50-1/2"L x 13-1/2"W x 5"D.
N. No. 603CA1750 Black.. **$194.75**

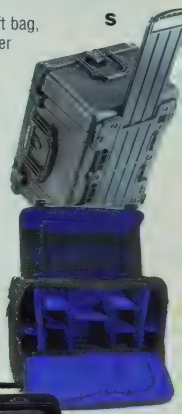
Convertible Travel Bag

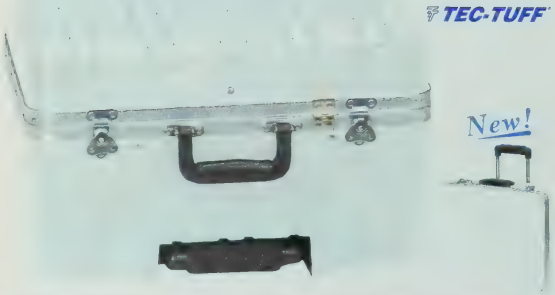
Designed to fit inside the 1520 case. Converts instantly from hard case to soft bag, for complete travel protection. Just pull out of 1520 case sling over shoulder and go without rearranging anything. Made of heavy duty waterproof padded Ballestic Nylon with multiple front and side gadget pockets. Velcro padded adjustable divider system protects complete outfits. Exclusive top/side access to equipment while in use with thick curved and padded shoulder strap. All nylon zippers and clips. Size: O.D.:17-3/4"L x 13-1/2"W x 7-1/4"D. Color: Black. **(USA)**

P. No. 603CA527..... **$81.00**

R. Laptop Computer Case
Outside Dimension: 16-3/4"L x 13-1/4"W x 4-7/16"D.
No. 603CA471 Black **$132.15**

S. 1620 Transportable Case
Outside Dimension: 24-3/4"L x 19-7/16"W x 14"D;
No. 603CA620 Black **$209.30**
Padded Divider Set Only
No. 603AC625..... **$161.35**





Horizontal Wheeled Cleanroom Tool Case

This white 10" rotationally molded horizontal wheely tool case features a retractable telescoping handle and semi-recessed wheels, with 1/4 turn military style latches and a molded carrying handle. Has horizontal configuration for stability, convenience and elimination of tool migration, because tools are carried vertically in the tool pockets and won't vibrate out. Cleanroom pallets included. 17-3/4" x 14-1/4" x 10". **(USA)**

No. 758CA678..... (1-3) **$320.00** (4-9) **$309.00** (10+) **$290.00**

Premier Super Roto Wheely™ Case

The Premier Wheely™ features ultra-strong, rotationally molded dense polyethylene with a fine-texture surface to resist and hide dirt. The case features sturdy feet molded into the case, a hide-away 41" handle that locks in both extended and closed positions, combo lock, dual-locking 1/4 turn locks, replaceable sealed metal-ball-bearing caster cassette wheels and a comfortable Philadelphia handle. Aluminum piano hinge. Available in sizes 17-7/8"L x 12-3/4"W x 3-1/4" top/3" bottom D. (I.D.) or 17-7/8"L x 12-3/4"W x 3-1/3" top/5-1/2" bottom (I.D.). Available in Black or Granite. **(USA)**

Description	Qty.	7" Deep Black 624CA808	7" Deep Granite 624CA818	9" Deep Black 624CA828	9" Deep Granite 624CA838
Tec-Tuff	1-3	$180.00	$180.00	$195.00	$195.00
Premier Wheely™	4-9	$172.00	$172.00	$181.00	$181.00
Case	10+	$159.00	$159.00	$170.00	$170.00

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Rapid Customizing With 1" Cubes – No Cutting!

CALL FOR QUANTITY DISCOUNTS

Tec-Tuff® Foam Cases

Shown at right, the Tec-Tuff tool case features recessed locks, combination lock, molded poly shell, piano hinge, padded handle, PLUS Ethafoam® in three layers. Case lid has 2-1/4" solid foam base; case bottom has 1" solid base plus a 2-1/4" foam blanket cut into 1" square cubes. Simply pull out cubes to accommodate item. This case is 18-1/2"L x 13"W and comes in three depths. ***One-Year Warranty.*** **(USA)**

Model No.	Description	Qty.	*Tec-Tuff®* 6" Deep 1 cubed blanket 758-CF-6	*Tec-Tuff®* 8" Deep 1 cubed blanket 758-CF-8	*Tec-Tuff®* 10" Deep 2 cubed blankets 758-CF-10
758	*Tec-Tuff®*	1-3	$ 150.00	$160.00	$175.00
	Foam Case	4-9	$ 141.00	$151.00	$163.00
		10+	$ 135.00	$146.00	$155.00

Customize it Yourself With a Utility Knife!

Tec-Tuff® Foam Case

This case is filled with 2 lbs. density Ethafoam® in 2-1/4" blankets. This 18-1/2"L x 13"W case comes in three depths. Ideal for carrying delicate or sensitive components, PC boards, etc. The case has the new Tec-Tuff® composite-poly-shell construction with recessed locks and three-tumbler combination lock. (Not shown) **(USA)**

Model No.	Description	Qty.	*Tec-Tuff®* 6" Depth 758-6-F	*Tec-Tuff®* 8" Depth 758-8-F	*Tec-Tuff®* 10" Depth 758-10-F
758	*Tec-Tuff®*	1-3	$130.00	$145.00	$155.00
	Foam Case	4-9	$125.00	$135.00	$145.00
		10+	$119.00	$129.00	$125.00

Ship-Carry® Case Full Foam

2" layered foam accepts weights up to 250 Lbs./Sq. In.; Cutting knife included. This case is 17-3/4"L x 14-1/2"W and comes in five heights **(USA)**

Description	Qty.	6-1/2"H Black 227CA640	6-1/2"H Granite 227CA641
Ship-Carry®	1-3	$155.00	$155.00
Case Full	4-9	$145.00	$145.00
Foam	10+	$135.00	$135.00

Description	Qty.	7-3/4"H Black 227CA642	7-3/4"H Granite 227CA643	9"H Black 227CA644	9"H Granite 227CA645
Ship-Carry®	1-3	$ 169.00	$169.00	$185.00	$185.00
Case Full	4-9	$159.00	$159.00	$167.00	$167.00
Foam	10+	$146.00	$146.00	$155.00	$155.00

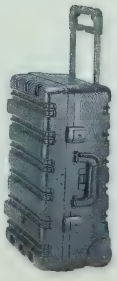
Description	Qty.	10-3/4"H Black 227CA646	10-3/4"H Granite 227CA647	12"H Black 227CA648	12"H Granite 227CA649
Ship-Carry®	1-3	$175.00	$175.00	$185.00	$185.00
Case Full	4-9	$167.00	$167.00	$163.00	$163.00
Foam	10+	$159.00	$159.00	$152.00	$152.00

Instrument Cases

This case meet the strict demands of airline travel, with outside dimensions of 22" x 14" x 9". Made from black high density polyethylene powder to be extremely durable. Can be ordered with or without built-in telescoping handle and recessed roller blade wheels. **Includes**: 3-digit combination lock. **(USA)**

Non-Cart Case
I.D.: 20-1/2" x 12-1/2" x 8-1/2"
No. 238CA221 ..... **$153.00**

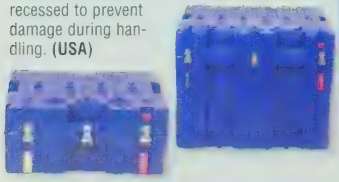
Cart Case - has built-in telescoping handle and wheels
I.D.: 20-1/2" x 12-1/2" x 6-1/2"
No. 238CA222 ..... **$229.50**

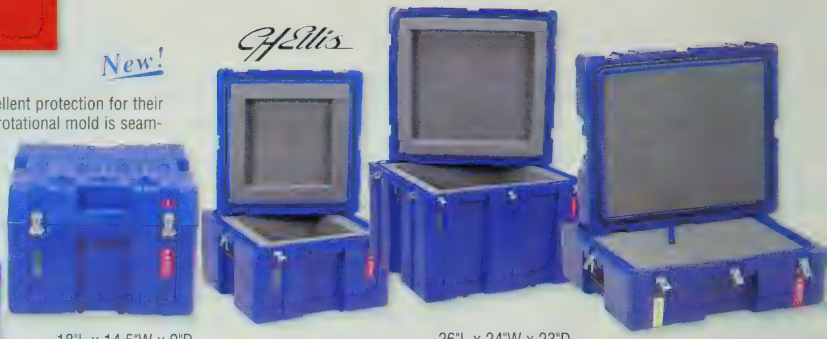


Rototrans Shipping Cases

New!

Rototrans series of shipping cases provide excellent protection for their contents, at an affordable price. The one-piece rotational mold is seamless and manufactured from polyethylene specifically developed for the application. The molded-in sealed double tongue and grooved gasketed closure also make these cases air-tight and watertight. All external hardware is recessed to prevent damage during handling. **(USA)**





16"L x 16"W x 15"D

No. 336CA152	Foam Filled	**$292.30**
No. 336CA153	Foam Lined	**$265.20**
No. 336CA154	Empty	**$246.45**

18"L x 14.5"W x 9"D

No. 336CA155	Foam Filled	**$294.65**
No. 336CA156	Foam Lined	**$272.30**
No. 336CA157	Empty	**$222.30**

22"L x 16"W x 10"D

No. 336CA149	Foam Filled	**$365.40**
No. 336CA150	Foam Lined	**$325.30**
No. 336CA151	Empty	**$285.75**

26"L x 24"W x 23"D

No. 336CA158	Foam Filled	**$583.45**
No. 336CA159	Foam Lined	**$515.00**
No. 336CA160	Empty	**$398.00**

26"L x 17"W x 15"D

No. 336CA161	Foam Filled	**$483.20**
No. 336CA162	Foam Lined	**$431.40**
No. 336CA163	Empty	**$331.45**

Polytrans Cases

New!

Polytrans Cases is the way to ensure that your valuable equipment arrives in good condition. The T-Beam valance has three times greater side impact protection, prolonging the useful life of the case. The high-density foam lining is 2" thick in the Super Polytrans. The foam filled Polytrans is loaded with 2" thick slabs of high quality foam, and comes complete with a knife and easy to follow instructions for field customization. **(USA)**

18"L x 18"W x 18"H

No. 336CA164	Foam Filled	**$294.65**
No. 336CA165	Foam Lined	**$266.35**
No. 336CA166	Empty	**$147.40**

18"L x 18"W x 10"H

No. 336CA167	Foam Filled	**$238.90**
No. 336CA168	Foam Lined	**$232.25**
No. 336CA169	Empty	**$141.35**

20"L x 20"W x 20"H

No. 336CA170	Foam Filled	**$350.10**
No. 336CA171	Foam Lined	**$297.00**
No. 336CA172	Empty	**$209.70**

24"L x 24"W x 10"H

No. 336CA173	Foam Filled	**$325.30**
No. 336CA174	Foam Lined	**$285.20**
No. 336CA175	Empty	**$153.90**

24"L x 24"W x 14"H

No. 336CA176	Foam Filled	**$354.80**
No. 336CA177	Foam Lined	**$302.90**
No. 336CA178	Empty	**$147.80**

24"L x 24"W x 23"H

No. 336CA179	Foam Filled	**$452.60**
No. 336CA180	Foam Lined	**$347.70**
No. 336CA181	Empty	**$185.90**

Platt Cases

Blow-Molded Cases

Platt's economical "Do-It-Yourself" cases. Prime high-density polyethylene double wall construction. The textured exterior resists dents, cracking, scuffs and remains unaffected by extreme temperatures. Durable field replaceable mechanical latches with a mechanical hinge system that outlasts the "living-hinge" style found on most similar style cases. All Platt Foam-Filled cases are filled with layers of cubed foam, flat cushion in the bottom and convoluted and/or flat cushion in the lid. (658CA207 has flat cushion in lid only)

TT No.	Inside Dim.	Body Depth	PRICE
658CA207	9-1/2"L x 16"W x 2-5/8"D	3"	**$13.85**
658CA703	11"L x 7"W x 3-3/8"D	3-3/4"	**$20.45**
658CA074	12-1/2"L x 9"W x 5-1/8"D	5-1/2"	**$27.25**
658CA505	14"L x 10"W x 4"D	4-3/4"	**$33.00**
658CA607	16"L x 11"W x 2-7/8"D	3-1/4"	**$31.35**
658CA0707	17-3/4"L x 12-3/4"W x 7-1/8"D	7-3/4"	**$64.75**

platt

Platt Economy Case

Black, molded ABS shell. Drawbolt key locks,& molded handle. Foam filled with bottom foam precut into removable cubes. Other sizes available. **(USA)**

Description	Qty.	12"L x 11"W x 5"D 1 Latch 658CA1414	16"L x 12"W x 5"D 2 Latches 658CA1416	19"L x 13"W x 7"D 2 Latches 658CA1425
Platt	1-3	**$52.80**	**$56.95**	**$77.15**
Economy	4-9	**$48.00**	**$51.00**	**$69.50**
Case	10+	**$42.50**	**$48.85**	**$63.75**

Guardsman™ ATA Wheeled Cases

This has been designed with a telescoping handle and built-in-wheels. The case has all recessed hardware, combination lock, full-length piano hinge, deluxe literature pocket in lid, two molded pallets, foam in bottom for meters and super-sized pallets.

18-1/2"L x 14-1/2"W x 9-3/4"D (I.D.)
No. 658CA777 Black **$420.75**
18-1/2"L x 13"W x 9-3/4"D (I.D.)
No. 658CA0757 Black **$412.50**

Other colors available. Please call.

Heavy Duty ATA Cases with Wheels

The exterior shell is tough impact resistant HMW polyethylene. Heavy-Duty aluminum rim and gasket, black trim, combination lock, full length piano hinge and spring loaded handle. This series includes wheels and telescoping handle for convenient transportation.

No. 658CA221
21-1/2"L x 15-1/2"W x 9"D (I.D.) **$253.75**
No. 658CA181
23-3/4"L x 17-3/4"W x 11"D (I.D.) **$267.30**
No. 658CA201
27-1/2"L x 19-1/2"W x 11"D (I.D.) **$265.65**

Platt Guardsman™ ATA Tool Case

Heavy-duty HMW polyethylene material with a unique continuous industrial frame both on the exterior and interior of the case for maximum strength. Recessed hardware, combination lock, spring-loaded handle and security-type bolts. Deluxe literature pocket in lid and two molded pallets. Foam in bottom of case for meters. Includes top pallet. 17 1/2"L x 11"W x 8"D. (I.D.) **(USA)**

No. 658CA719 Black **$288.75**
No. 658CA720 Yellow **$288.75**
No. 658CA740 Blue **$288.75**
No. 658CA747 Gray **$288.75**
No. 658CA474 Orange .. **$288.75**
No. 658CA454 Aluminum.. **$363.00**

Platt Guardsman® ATA 300 Case

Heavy-duty black HMW polyethylene material with unique continuous industrial frame based on Platt's patented Guardsman design and construction. All hardware is recessed for wearability and shipping purposes. Cases come with combination lock, spring-loaded handle and security-type bolts. All top and body interiors of cases are lined with high-density foam. Lined and filled with solid, layered foam.

TT No.	Color	I.D. L x W x H	Depth	Wt.	PRICE
658CA1008	Blue	12" x 8 1/2" x 14"	11"	13 lb.	$249.00
658CA0118	Black	12" x 8 1/2" x 14"	11"	13 lb.	$231.00
658CA1012	Black	16 1/2" x 10" x 16"	12 1/2"	20 lb.	$316.00
658CA1013	Black	17 1/2" x 11" x 8"	6"	15 lb.	$272.25
658CA310	Gray	17 1/2" x 11" x 8"	6"	15 lb.	$272.25
658CA1016	Yellow	20" x 14" x 12 1/2"	9"	20.2 lb.	$346.50
658CA0016	Black	20" x 14" x 12 1/2"	9"	20.2 lb.	$346.50
658CA1018	Yellow	25 1/2" x 17 1/2" x 17 1/2"	14 1/2"	30.8 lb	$453.75
658CA810	Blue	25 1/2" x 17 1/2" x 17 1/2"	14 1/2"	30.8 lb.	$453.75
658CA1112	Black	32" x 20" x 12"	8"	61 lb.	$759.00

Heavy-Duty ATA Cases with Recessed Hardware

All hardware is recessed to resist damage during shipping. The exterior shell is tough impact resistant HMW polyethylene. Heavy-duty aluminum valance, combination lock, twist-draw latches, full-length piano hinge and spring loaded handle.

All Platt Foam-Filled cases are filled with layers of cubed foam and a flat cushion in the bottom and convoluted and/or flat cushion in the lid.

TT No.	Inside Dim.	Body Depth	PRICE
658CA309	18-1/2"L x 12-1/2"W x 9"D	5"	$152.65
658CA409	19-5/8"L x 13-3/4"W x 9"D	5"	$165.40
658CA0811	23-3/4"L x 17-3/4"W x 11"D	5-1/2"	$193.00

New!

Roto-Rugged "Tote-Wheeled" Foam Cases

Roto-Rugged Cases are manufactured by rotational molding dense polyethylene. This special process assures thick, impact resistant corners and provides uniform wall thickness for strength and durability. The special luggage cart capability is built-in and is designed to provide stability and easy transport. A telescoping handle extends to a comfortable 40" length for balance while heavy-duty, full ball bearing wheels allows ease and mobility. But the features don't stop there.

This professional case includes features like: Baked on Black powered coated finish that resist scratches; hand fitted tongue and groove aluminum valances; Ball bearing lid stays to prevent the lid from accidentally closing on you; Heavy-duty, full length piano-hinges; comfort steel-core padded leather handle; a combination lock and two locking key latches.

The Roto-Rugged "Tote-Wheeled" Full Foam Case easy-to-cut 2" foam layers, top and bottom, is designed to accept a weight of 250 pounds-per-square inch. A foam-cutting knife allows you to customize the interior to fit your needs. Choose from Black or Charcoal. (USA)

TT No.	PRICES		Inside Dimensions	Lid/Bottom	Wt	TT No.	PRICES	
Black	1	2-5	L" x W" x H"		LB	Charcoal	1	2-5
227CA3720	$569.00	$532.00	37" 25" 20"	3 + 17	47	227CA3721	$569.00	$532.00
227CA3718	$559.00	$522.00	37" 25" 18"	3 + 15	45	227CA3719	$559.00	$522.00
227CA3719	$549.00	$513.00	37" 25" 16"	3 + 13	43	227CA3717	$549.00	$513.00
227CA3714	$539.00	$504.00	37" 25" 14"	3 + 11	41	227CA3715	$539.00	$504.00
227CA3725	$529.00	$495.00	37" 25" 12"	3 + 9	40	227CA3726	$529.00	$495.00
227CA8222	$446.65	$418.00	28" 22" 20"	3 + 17	38	227CA8220	$446.65	$418.00
227CA2822	$489.00	$457.00	28" 22" 18"	3 + 15	36	227CA8228	$489.00	$457.00
227CA2816	$469.00	$438.00	28" 22" 16"	3 + 13	34	227CA8226	$469.00	$438.00
227CA2814	$449.00	$420.00	28" 22" 14"	3 + 11	30	227CA8224	$449.00	$420.00
227CA2812	$429.00	$402.00	28" 22" 12"	3 + 9	28	227CA8221	$429.00	$402.00
227CA2220	$499.00	$467.00	25" 22" 20"	3 + 17	32	227CA5220	$499.00	$467.00
227CA2218	$479.00	$448.00	25" 22" 18"	3 + 15	31	227CA5218	$479.00	$448.00
227CA522	$459.00	$430.00	25" 22" 16"	3 + 13	29	227CA5216	$459.00	$430.00
227CA379	$439.00	$411.00	25" 22" 14"	3 + 11	27	227CA2214	$439.00	$411.00
227CA380	$419.00	$392.00	25" 22" 12"	3 + 9	25	227CA2212	$419.00	$392.00
227CA352	$354.75	$332.00	24-7/8" 14-1/2" 8"	2-1/2 +5-1/2	21	227CA361	$354.75	$332.00
227CA353	$365.25	$342.00	24-7/8" 14-1/2" 9"	2-1/2 +6-1/2	22	227CA362	$365.25	$342.00
227CA354	$375.70	$352.00	24-7/8" 14-1/2" 10"	2-1/2 +7-1/2	23	227CA363	$375.70	$352.00
758CA712	$388.55	$364.00	24-7/8" 14-1/2" 12"	3 +9	24	227CA364	$388.55	$364.00
227CA1414	$369.55	$320.00	24-7/8" 14-1/2" 14"	3 +11	25	227CA544	$369.55	$320.00
227CA355	$407.10	$381.00	24-7/8" 14-1/2" 16"	3 +13	27	227CA365	$407.10	$381.00
227CA2514	$396.80	$371.00	24-7/8" 14-1/2" 18"	3 +15	29	227CA418	$396.80	$371.00
227CA356	$297.35	$278.00	17-7/8" 14-1/2" 8"	2-1/2 +5-1/2	16	227CA366	$297.35	$278.00
227CA357	$309.00	$289.00	17-7/8" 14-1/2" 9-1/2"	4 + 5-1/2	17	227CA367	$309.00	$289.00
227CA358	$319.00	$299.00	17-7/8" 14-1/2" 10-1/2"	3 +7-1/2	18	227CA368	$319.00	$299.00
227CA359	$327.20	$308.00	17-7/8" 14-1/2" 12"	3 +9	19	227CA111	$327.20	$308.00
227CA360	$339.00	$317.00	17-7/8" 14-1/2" 14"	4 +10	20	227CA369	$339.00	$317.00

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

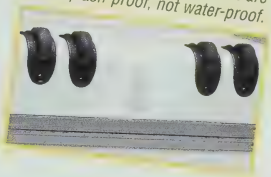
Wheeled Transport Containers

Provide a safe, economical way to ship electronic devices, personal computers, peripherals, cameras, video equipment and other sensitive equipment. Rugged, heavy-duty containers. Constructed of high-density polyethylene. Male/female closures. Spring-loaded handles. Rubber gaskets to seal out dirt and moisture. Full length, heavy-duty piano hinges. Quarter-turn, military-style latches. All cases can be padlocked. Heavy-duty detachable wheels can be added to most cases. Cases available with a 2" foam-lined interior or a 2" layered full-foam interior which is easily cut with an enclosed knife to fit your dimensions. Custom foam interiors are available in quantities of 25 or more. The foam absorbs shock and will support weights of 250 lbs. per square inch. Permanent white finish withstands temperature variations of -180°F to +180°F, is resistant to solvents, and will not blister or peel. **(USA)**

Factory Installed Wheeled Option

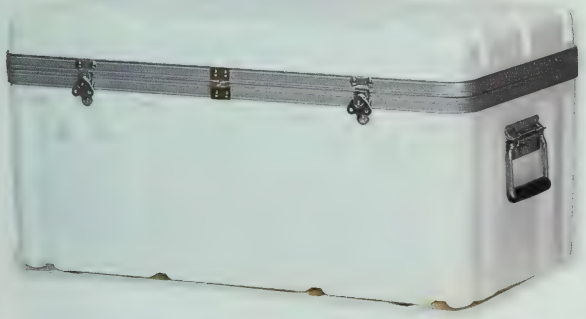
Now, select models of our Transport Containers are available with heavy-duty, ball-bearing wheel cassettes. These cassettes are field replaceable! (See chart)

Cases meet ATA spec 300, but are only splash-proof, not water-proof.



Attache Style – One Handle

2" Foam	PRICE	Wt.	Full Foam	PRICE	Wt.	Int. Dim. (LxWxH)	Bottom Lid	Wheeled Version: 2" FOAM	PRICE	Full Foam	PRICE	# WHEELS
227CA133	$174.60	9	227CA132	$183.40	9	13-7/8" x 8-7/8" x 9"	6-1/2" + 2-1/2"	–	–	–	–	–
227CA146	$148.30	11	227CA140	$157.10	11	17-3/4" x 14-1/2" x 6-3/8"	3-5/8" + 2-3/4"	–	–	–	–	–
227CA149	$157.10	13	227CA148	$165.85	14	17-3/4" x 14-1/2" x 9	5" + 4"	–	–	–	–	–
227CA414	$162.35	13	227CA412	$174.65	15	17-3/4" x 14-1/2" x 12"	8-1/2" + 3-1/2"	–	–	–	–	–
227CA288	$182.00	15	227CA188	$192.20	15	18-3/4" x 18-3/4" x 8"	4" + 4"	–	–	–	–	–
227CA811	$192.20	14	227CA810	$200.95	17	18-3/4" x 18-3/4" x 10"	6" + 4"	–	–	–	–	–
227CA813	$209.75	18	227CA318	$227.30	21	18-3/4' x 18-3/4" x 13"	9" + 4'	–	–	–	–	–
227CA210	$236.00	21	227CA110	$244.85	24	27" x 19" x 10"	5" + 5'	227CA510	$260.45	227CA710	$262.40	2
227CA690	$244.80	24	227CA691	$262.40	27	27" x 19" x 12"	8" + 4'	227CA692	$271.15	227CA693	$279.90	2
227CA694	$253.60	25	227CA695	$271.15	29	27" x 19" x 14"	8" + 6'	227CA696	$279.90	227CA697	$288.70	2
227CA698	$262.40	26	227CA699	$279.90	31	27" x 19" x 16"	8" + 8"	227CA700	$288.70	227CA701	$298.15	2
227CA075	$288.70	21	227CA074	$315.00	26	27-1/4" x 24-1/4" x 7"	3-1/2" + 3-1/2"	–	–	–	–	–
227CA211	$236.00	20	227CA711	$253.60	25	28-7/8" x 17-1/4" x 11"	5-1/2" + 5-1/2"	227CA511	$262.40	227CA712	$293.00	2



Footlocker Style – Two Handles

2" Foam	PRICE	Wt.	Full Foam	PRICE	Wt.	Int. Dim. (LxWxH)	Bottom Lid	Wheeled Version: 2" FOAM	PRICE	Full Foam	PRICE	# WHEELS
227CA203	$209.75	15	227CA202	$218.50	16	20-1/2" x 12-3/4" x 11-1/2"	9" + 2-1/2"	– C. Footlocker Style–			–	–
227CA247	$299.75	15	227CA246	$208.15	15	21-1/8" x 10-5/8" x 12"	9-1/2" + 2-1/2"	– Two Handles		–	–	–
227CA217	$264.30	25	227CA817	$296.15	29	23-1/2" x 18-1/2" x 17-1/2"	14" + 3-1/2"	227CA517	$286.55	227CA717	$321.40	2
227CA263	$244.00	13	227CA262	$256.00	14	24-1/2" x 9" x 14-1/4"	12-1/2" + 1-3/4"	–	–	–	–	–
227CA214	$244.80	21	227CA114	$279.95	24	28-7/8" x 14-1/4" x 14"	11' + 3'	227CA702	$267.65	227CA703	$285.20	–
227CA277	$299.00	23	227CA276	$288.70	27	28-1/8" x 14-1/4" x 17"	12" + 5"	227CA704	$285.20	227CA705	$293.95	–
227CA216	$352.70	33	227CA116	$402.80	35	34" x 25-3/4" x 16"	13" + 3"	227CA516	$402.80	227CA716	$460.75	4
227CA280	$299.70	31	227CA281	$335.00	47	35-1/2" x 18" x 15"	10" + 5"	227CA580	$323.80	227CA781	$347.55	2
227CA283	$330.10	35	227CA282	$385.25	47	35-1/8" x 18" x 20"	10" + 10"	227CA583	$367.70	227CA782	$399.80	2
227CA019	$341.35	40	227CA119	$411.55	46	37" x 22" x 19"	14" + 5"	227CA519	$376.45	227CA719	$442.15	4
227CA286	$332.60	37	227CA284	$364.95	40	38" x 22" x 12"	10" + 2"	227CA586	$367.70	227CA784	$399.80	4
227CA291	$341.35	30	227CA290	$373.65	35	41" x 14" x 16"	14" + 2"	227CA591	$367.70	227CA790	$385.25	2

ATA Transport Cases

Square Box Style – Two Handles

2" Foam	PRICE	Wt.	Full Foam	PRICE	Wt.	Int. Dim. (LxWxH)	Bottom Lid	Wheeled Version 2" FOAM	PRICE	Full Foam	PRICE	# WHEELS
227CA143	$197.45	11	227CA142	$192.20	11	14-1/2" x 13-1/8" x 12"	10" + 2"	–	–	–	–	–
227CA145	$174.60	11	227CA144	$183.40	11	14" x 14" x 9"	6" + 3"	–	–	–	–	–
227CA213	$197.45	15	227CA113	$200.95	16	15-3/4" x 14-3/4" x 13-1/2"	6-3/4" + 6-3/4"	–	–	–	–	–
227CA423	$244.80	19	227CA420	$276.00	22	17-3/4" x 14-1/2" x 19"	17" + 2"	–	–	–	–	–
227CA218	$244.80	21	227CA818	$262.40	25	18-3/4" x 18-3/4" x 18"	14" + 4"	–	–	–	–	–
227CA823	$251.75	23	227CA822	$279.95	26	18-3-/4" x 18-3/4" x 21"	15" + 6"	–	–	–	–	–
227CA251	$297.50	21	227CA250	$306.25	25	20" x 20" x 16"	8" + 8"	–	–	–	–	–
227CA253	$306.25	24	227CA252	$323.80	29	20" x 20" x 20"	12" + 8"	–	–	–	–	–
227CA245	$319.00	29	227CA244	$338.00	33	20" x 20" x 24"	12" + 12"	–	–	–	–	–
227CA255	$315.00	25	227CA254	$341.35	30	22" x 22" x 17-1/2"	10-1/2" + 7"	227CA555	$359.00	227CA754	$350.80	2
227CA257	$323.80	31	227CA256	$350.15	36	22" x 22" x 21"	10-1/2" + 10-1/2"	227CA557	$350.15	227CA756	$358.90	2
227CA417	$295.25	32	227CA117	$332.60	37	24" x 24" x 17-1/2"	15" + 2-1/2"	227CA518	$350.15	227CA718	$373.65	4
227CA421	$315.00	33	227CA121	$350.10	40	24" x 24" x 21-3/4"	15" + 6-3/4"	227CA521	$356.25	227CA721	$385.20	4
227CA230	$350.15	42	227CA130	$429.10	51	24" x 24" x 30"	15" + 15"	227CA530	$402.80	227CA730	$457.35	4
227CA271	$341.35	33	227CA270	$394.00	40	26-1/2" x 26-1/2" x 16"	8" + 8"	227CA571	$402.80	227CA770	$429.10	4
227CA273	$350.15	37	227CA272	$276.55	46	26-1/2" x 26-1/2" x 20"	12" + 8"	227CA573	$411.55	227CA772	$437.90	4
227CA275	$358.90	39	227CA274	$420.30	49	26-1/2" x 26-1/2" x 23"	13" + 10"	227CA575	$420.30	227CA774	$446.65	4
227CA226	$373.65	41	227CA126	$437.90	54	26-1/2" x 26-1/2" x 26"	13" + 13"	227CA527	$429.10	227CA726	$455.40	4

Two Piece Shipping Containers

Foam Filled	PRICE	Foam Lined	PRICE	Int. Dim. (LxWxH)	Bottom Lid	Wheeled Version Foam Filled	PRICE	Foam Lined	PRICE
–	–	227CA004	$297.50	20" x 20" x 24"	12" + 12"	–	–	–	–
227CA221	$341.35	227CA021	$297.50	22" x 22" x 21"	10-1/2" + 10-1/2"	227CA844	$341.35	227CA843	$341.35
227CA828	$335.10	227CA028	$359.00	23-1/2" x 18-1/2" x 28"	14" + 14"	227CA846	$358.90	227CA845	$350.15
227CA430	$458.80	227CA030	$389.00	24" x 24" x 30"	15" + 15"	227CA848	$437.90	227CA847	$420.35
227CA626	$361.55	227CA026	$449.45	26-1/2" x 26-1/2" x 26"	13" + 13"	227CA850	$437.90	227CA849	$429.10
227CA322	$503.00	227CA052	$459.00	34" x 25-3/4" x 26"	13" + 13"	227CA852	$499.95	227CA851	$463.75
227CA820	$361.55	227CA020	$369.00	35-1/8" x 18" x 20"	10" + 10"	227CA854	$434.65	227CA853	$391.10
–	–	–	–	37" x 22" x 28"	5" + 5"	227CA856	$446.65	227CA855	$420.35
227CA382	$421.00	227CA200	$365.25	38" x 22" x 20"	10" + 10"	227CA858	$438.55	227CA857	$411.55
227CA014	$500.55	227CA220	$666.00	57" x 30" x 14"	11" + 3"	–	–	–	–
227CA532	$797.00	–	–	57" x 30" x 22"	11" + 11	227CA860	$815.20	227CA859	$678.50

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or 1-610-941-2400
Fax: 1-800-854-8665

Combo Style – Three or Four Handles

Combo Style – With Handles

2" Foam	PRICE	Wt.	Full Foam	PRICE	Wt.	Int. Dim. (LxWxH)	Bottom Lid	Wheeled Version: 2" FOAM	PRICE	Full Foam	PRICE	# WHEELS
227CA181	$197.45	11	227CA182	$197.45	12	17-7/8" x 9-7/8" x 12-1/4"	10-1/2" + 1-3/4"	–	–	–	–	–
227CA205	$244.85	21	227CA204	$253.60	2	120-1/2" x 14-1/2" x 15"	12" + 3"	–	–	–	–	–
227CA219	$248.25	20	227CA419	$262.40	23	20-1/2" x 14-1/2" x 19"	15" + 4"	–	–	–	–	–
227CA265	$260.45	23	227CA264	$271.15	25	24" x 24" x 10"	7-1/4" + 2-3/4"	227CA565	$279.95	227CA764	$288.70	2
227CA413	$271.15	24	227CA013	$288.70	29	24" x 24" x 13-1/2"	6-3/4" + 6-3/4"	227CA513	$286.55	227CA713	$297.50	2
227CA267	$246.65	21	227CA266	$260.45	23	25" x 13-3/8" x 15-1/4"	12-1/2" + 2-3/4"	–	–	–	–	–
227CA269	$251.70	22	227CA268	$288.70	25	25" x 13-3/8" x 18"	13" + 5"	–	–	–	–	–
227CA279	$269.15	24	227CA278	$279.00	35	35-1/8" x 18" x 10"	5" + 5"	227CA579	$306.25	227CA778	$315.00	2
227CA293	$437.75	36	227CA292	$505.35	43	46" x 23" x 11"	5-1/2" + 5-1/2"	227CA706	$473.00	227CA707	$525.65	–
227CA295	$522.10	68	227CA294	$609.85	82	57" x 30" x 14"	11" + 3"	227CA708	$589.60	227CA709	$643.40	–

Deluxe Wheeled Transport Cases

Protect valuable and sensitive equipment with these Wheeled Transport Cases. Strong enough for airline handling, these rugged polyethylene cases feature two durable, recessed ball-bearing rubber wheels on the bottom corners to assure maximum stability. They have a solid, flush mount, telescoping handle engineered so one person can handle heavy loads easily. And each case is filled with layers of plush foam and a piece of convoluted foam under the lid. A full-length, heavy-duty piano hinge, two military style latches plus padlock eye, spring-loaded handle, complete your case and insure safe transit of contents. **(USA)**

BLACK	PRICE	Interior Dimensions	Bottom/Lid	Wheels	Wt (Lb)	SILVER	PRICE
227CA929	$239.55	21.75" x 14.5" x 6"	3.75" + 2.25"	2	12	227CA930	$239.55
227CA931	$248.45	21.75" x 14.5" x 8"	5"+ 3"	2	17	227CA932	$284.48
227CA925	$257.35	21.75" x 14.5" x 10"	6" + 4"	2	13	227CA926	$257.35
227CA927	$262.40	21.75" x 14.5" x 12"	6" + 6"	2	14	227CA928	$262.40
227CA907	$246.65	23.5" x 17.4" x 6"	3" + 3"	2	21	227CA906	$246.65
227CA910	$255.50	23.5" x 17.4" x 8"	5" + 3"	2	22	227CA911	$255.50
227CA912	$264.30	23.5" x 17.4" x 10"	5" + 5"	2	23	227CA913	$264.30
227CA901	$306.25	23.8" x 20.6" x 6"	3" + 3"	2	22	227CA902	$306.25
227CA903	$334.60	23.8" x 20.6" x 8"	5" + 3"	2	24	227CA904	$334.60
227CA311	$317.35	23.8" x 20.6" x 10"	6" + 4"	2	26	227CA310	$322.00
227CA112	$333.40	23.8" x 20.6" x 12"	7" + 5"	2	28	227CA914	$328.60
227CA313	$341.35	23.8" x 20.6" x 14"	6" + 8"	2	29	227CA312	$335.00
227CA339	$316.00	23.8" x 20.6" x 15"	7.5" + 7.5"	2	30	227CA242	$292.85
227CA921	$279.95	25.4" x 17.3" x 6"	3" + 3"	2	22	227CA922	$279.95
227CA923	$293.00	25.4" x 17.3" x 8"	5" + 3"	2	23	227CA924	$293.00
227CA915	$299.70	25.4" x 17.3" x 10"	5" + 5"	2	24	227CA916	$299.70
227CA917	$306.25	25.4" x 17.3" x 12"	7" + 5"	2	25	227CA918	$306.25
227CA919	$317.25	25.4" x 17.3" x 14"	7" + 7"	2	26	227CA920	$317.35
227CA933	$379.25	25.75" x 25.75" x 10"	6" + 4"	2	27	227CA934	$379.25
227CA935	$388.10	25.75" x 25.75" x 12"	8" + 4"	2	29	227CA936	$388.10
227CA939	$405.75	25.75" x 25.75" x 16"	8" + 8"	2	33	227CA940	$405.75
227CA941	$315.00	27" x 19" x 10"	6" + 4"	2	20	227CA942	$315.00
227CA943	$326.20	27" x 19" x 12"	8" + 4"	2	23	227CA944	$326.20
227CA945	$335.00	27" x 19" x 14"	8" + 6"	2	25	227CA946	$335.00
227CA947	$343.90	27" x 19" x 16"	8" + 8"	2	26	227CA948	$343.90
227CA306	$399.85	30" x 23" x 10"	5" + 5"	4	30	227CA302	$335.00
227CA307	$411.75	30" x 23" x 12"	8" + 4"	4	32	227CA303	$408.75
227CA308	$414.60	30" x 23" x 14"	8" + 6"	4	34	227CA304	$420.70
227CA309	$426.55	30" x 23" x 16"	8" + 8"	4	36	227CA305	$429.65
227CA951	$420.35	30" x 30" x 12"	8" + 4"	4	36	227CA952	$420.35
227CA955	$441.10	30" x 30" x 16	8" + 8"	4	40	227CA956	$441.10

Tool Brute®

Ideal for the tool room, repair shop or service center. Every detail has been designed for maximum strength with reduced weight. Features include trays with a comfortable, full-grip handle, positive-action latches, solid brass pins, padlock tabs, and recessed heavy-duty handles. Molded, co-polymer resins provide rustproof, chemical resistant, non-conductive, rugged construction. Customize your box for specialty repair and service kits. Color: Gray. **(USA)**

14-1/2"L x 5-1/4"W x 7-1/2"D - 1 latch
No. 379CA148 ..... **$10.65**

16-5/8"L x 7-1/8"W x 8-3/4"D - 1 latch
No. 379CA178 ..... **$19.10**

20-1/4"L x 8-3/8"W x 8-7/8"D - 2 latches
No. 379CA198 ..... **$23.00**

Stack-On 22" Mechanic's Tool Box

Heavy-duty polypropylene construction to support larger loads. Large sure-grip handle. Extra-deep bottom storage area. Extra-high lid for increased storage capacity. Bottom feet keeps box clean and dry. Deluxe, lift-out compartment tote tray with organizers. Tools not included. 22"L x 10"W x 10-1/4"D. **(USA)**
No. 731CA023..... **$28.00**

Redline® Tool Boxes

These toolboxes won't chip, crack, rust or corrode. Made of solid polypropylene, these tool boxes feature sure-lock latches, strong interlocking hinges and lift-out tray. **(USA)**

19" Tool Box:
Padlock eyes and metal latches. 19"W x 9-1/2"D x 8-1/2"H
A. No. 128ST119 ..... **$24.00**

13" Tool Box: Plastic latch. 13"W x 7"D x 6"H
B. No. 128ST013 ..... **$10.90**

Cantilever Tool Boxes

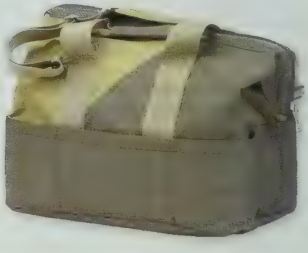
This case makes it easy to organize tools in a small space. Features Tip-Guard™ tray supports, draw tight lockable latches and tongue-and-groove construction for a secure seal. **Specifications:** 35 tray compartments; Size: 18-1/2"L x 10-3/4"W x 10-3/8"H. Wt.: 6.8 lbs.. Color: Gray.
No. 379CA190 (1-3) **$50.40** (4-9) **$38.50** **(10+) $36.60**

Mechanic's Tool Bag

This bag is made from water repellent, 1000 Denier DuPont Cordura® Plus nylon with large, oversize zipper and heavy-duty web strap handles. Bag features two outside and eight inside pockets. **(USA)**

Description	Qty.	Black 279CA240	Navy 279CA242	Olive 279CA244
Mechanic's	1-3	(1-3) **$16.95**	(1-3) **$16.95**	(1-3) **$16.95**
Tool Bag	4-9	(4-9) **$11.95**	(4-9) **$11.95**	(4-9) **$11.95**
	10+	(10+) **$10.95**	(10+) **$10.95**	(10+) **$10.95**

TuffWear™ Builders Tool Bag



The Builders Tool Bag protects and organizes more tools than a tool box, with 21 pockets you can keep your tools organized and within reach. Designed with an extra wide opening for easy access, and a reinforced bottom retains bag shape.
12"L x 7.5"W x 10"H
No. 534AC312 ..... **$19.30**
16"L x 9"W x 13"H
No. 534AC316 ..... **$27.00**

Thirty Outer Pockets Hold Your Tools!

Electrician's Carrier™ Tool Bag

Made from heavy-duty, 18 oz. canvas, this tool bag is designed for convenient storage and portability of your tools and more. Wide inner compartment (10"D x 17"L x 6-1/4"W) with open top provides easy access to bag contents. Thirty (30) stitched outer pockets allow easy access to frequently needed tools. *(Tools not included.)*
No. 462CA534..... **$44.20**

Tool Chest with Steel Drawers

Combines the strength and sure-action of steel drawers with the protective resilience of the plastic body. Extra-deep top compartment stores power tools, hand tools, and supplies. Smooth-action steel I-Beam drawer slides ride on steel inner walls to hold heavy loads. Full-length drawer handles for easy access. Galvanized steel hinge pins locks drawers to prevent spills. **Dimensions:** O.D.: 22"W x 11-1/4"H x 10-7/8"D; Drawers (2) 18-1/4"W x 2-3/8"H x 7-1/2"D. Gray.
No. 731CA222 ..... **$39.90**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

STACK-ON

Five Drawer Roller Cabinet - 295

Any 26 or 28" wide chest, chest base or chest riser will fit on top of model 295. Drawers have automatic, internal locking system. Swing-down panel conceals and secures storage compartment. Side handle standard. 295 comes with 5" x 2" casters. The five drawers include: Three drawers, 25"W x 18-1/2"D x 2"H; Two drawers, 25"W x 18-1/2"D x 4-1/8"H; Compartment, 26-1/8"W x 19-3/4"D x 11-1/4"H. Overall Size: 29"W x 20"D x 35"H. Ship Wt.: 140 lbs.

No. 483CA295 Brown Wrinkle Finish **$447.25**

No. 483CA952 Red Smooth Finish **$447.25**

Eight Drawer Cabinet - 378

Use with any 26" wide chest, chest base or chest riser. Tamper-proof, internal drawer locking system cannot be damaged when one drawer is closed with the cabinet locked. Side handle and 5" x 2" casters are standard. The eight drawers include: Three drawers, 23"W x 16-1/2"D x 2"H; Four drawers, 23"W x 16-1/2"D x 4"H; One drawer, 23"W x 16-1/2"D x 6"H. Overall size: 27"W x 18"D x 39"H. Ship Wt.: 161 lbs. Brown wrinkle or Red smooth finish. Brown Finish.

No. 483CA378 ..... **$542.20**

11 Drawer Machinists' Journeyman Chest - 52611

Comes with eight adjustable, zinc-coated steel drawer dividers standard. Spring clips hold in place. Top Till: 26-1/2"W x 8-3/8"D x 3-1/4"H: Handbook Drawer: 5-1/2"W x 7-1/2"D x 4-3/8"H; Six drawers: 8-5/8"W x 7-1/2"D x 1"H; One drawer: 8-5/8"W x 7-1/2"D x 2"H; One drawer: 24-3/4"W x 7-1/2"D x 1-1/2"H; One drawer: 24-3/4"W x 7-1/2"D x 2-1/4"H; One drawer: 24-3/4"W x 7-1/2"D x 3-1/8"H. Overall size: 26-3/4"W x 8-1/2"D x 18"H. Wt.: 56 lbs.

No. 483CA611 Brown Finish..... **$264.90**

Models are available in brown wrinkle or red smooth finish.

Two Drawer Tool - 220

Think of it as a tool chest you can take on the job. Top Till: 20"W x 8-3/8"D x 2 1/4"H; Two drawers: 18-1/4"W x 7-3/8"D x 2-1/4"H. Overall Size: 20-1/8"W x 8-5/8"D x 9-3/4"H. Wt.: 19 lbs.

No. 483CA220
Brown Finish. **$93.15**

Seven Drawer Machinists' Apprentice Chest - 520

Drawers and top till are wool felt-lined. Vinyl cushioned, steel core top handle. Standard six adjustable, zinc-coated steel drawer dividers standard. Spring clips hold in place. Top Till: 20"W x 8-3/8"D x 3-1/4"H; Four drawers: 8-5/8"W x 7-1/2"D x 1"H: One drawer: 8-5/8"W x 7-1/2"D x 2"H; One drawer: 18- 1/4"W x 7-1/2"D x 1-1/2"H; One drawer: 18-1/4"W x 7-1/2"D x 2-1/4"H. Wt.: 35 lbs. Overall size: 20-1/8"W x 8-1/2"D x 13-5/8"H.

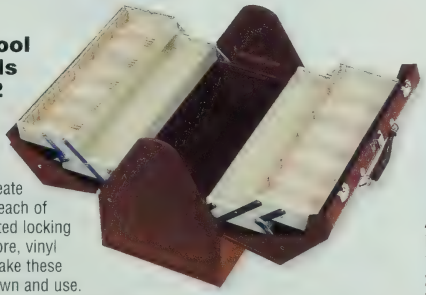
No. 483CA520 Brown Finish **$167.50**

Professional Tool Boxes - 20" K20

Includes lift-out tray, vinyl coated, steel top handle, socket set divider. Overall size: 20-1/8"L x 8-5/8"W x 9-3/4"H; Tray: 19-1/2"L x 7-3/4"W x 3-3/8"H. Wt.: 14 lbs.

No. 483CA020
Brown Finish .. **$51.45**

Cantilever Tool Boxes Models 1018 & 1022



See all your tools at a glance. Moveable/removable partitions and divider sets permit you to create six compartments in each of two trays. Quality plated locking hardware and steel core, vinyl cushioned handles make these boxes a pleasure to own and use.

Four trays: 18-1/8"L x 10"W x 12-5/8"H. Wt: 19.5 lbs.

No. 483CA018 Brown Finish **$94.80**

Add-On Machinists' Chest Bases - 5150

Model 5150 fits 526, 52611 and 3611. Two drawers: One drawer: 25"W x 10-7/8"D x 2"H; One drawer: 25"W x 10-7/8"D x 4-1/8"H; Overall Size: 26-3/4"W x 12-1/2"D x 9-1/2"H. Wt.: 37 lbs.

No. 483CA150 Brown Finish **$103.35**

A. PFC Portable #1000 Cart

Ideal for carrying tool kits and test equipment. Use its wide handle to push like a handtruck as the handle length adds stability. It adjusts to a tall 46", yet it folds up and stores easily in a car, office or home. It is lightweight and is guaranteed to hold 275 lbs. A unique stepslider feature allows it to climb up and down stairs. Features oversized 7" roller bearing wheels. Storage dims.: 27"H x 17"W x 8"D. ***Ten-Year Warranty.*** **(USA)**

No. 666BE101 ..... **$66.00**

B. PFC Mighty Mini Hand Truck

Capacity: 200 lbs. Dynamic, stepslider chrome steel. Completely hand electric arc welded (no spot welding). Weighs 8 lbs. Storage dims.: 24"H x 13"W x 7"D. 6" heavy-duty wheels – to go up and down stairs and curbs easily. For packages over 38" in height, reverse handle. Comes assembled; includes one 72" stretch band. ***Ten-Year Warranty.*** **(USA)**

No. 666MI010 ..... **$35.25**

C. Tri-Kart 800

This cart features a load capacity of 300 lbs./storage weight of 16 lbs. It moves on either two or four wheels, on fold down and locking auxiliary back support with two 3" swivel, caster wheels. Made from heavy-duty steel, aluminum. Other features: 12-1/2" x 16" steel platform base; heavy-duty steel stair/curb slides; elastic cords with "stop lock" to correct slide slip problems. ***Ten-Year Limited Warranty.***

No. 677MI800 ..... **$204.00**

Make Your Field Work Easy!

D. Super Cart

Capacity 400 lbs. (180 Kgs). This cart effortlessly glides up and down steps and curbs and telescopes close in a single motion to fit in airline overheads and small storage areas. The comfortable padded handle adjusts from 37" to a full height of 52" with positive locking deck, and has two bungee cords with safety loops. The cart has 6" dia. heavy-duty, ball bearings wheels. Dimensions (HxWxD): Open: 52" x 16.5" x 19"; Closed: 25.5" x 16.5" x 5.75"; Load Tray Size (WxD): 16" x 12.75"; Wheelbase: 16.5". Wt.: 15 lbs. ***Lifetime Warranty.*** **(USA)**

No. 274BE882 ..... **$115.50**

E. Commander 600

The Commander 600 features a load weight capacity of 300 lbs. and heavy-duty steel, aluminum and Lexan® plastic construction. Features include: patented "one motion" opening and closing; 12-1/2" x 16" steel platform base, 5" wheels; extended handle height of 49"; collapsed size of 20-1/8" x 16"; stair-curb slides for easy access; adjustable cord lock. ***Ten-Year Limited Warranty.***

No. 677MI600 ..... **$150.95**

Folds Flat to 2-1/2"!

F. Fold-Flat Cart

Fold flat for easy storage. Opens quickly to hold up to 275 pounds. This versatile cart has large 7-1/4" cushioned wheels providing a smooth, safe ride over curbs or other obstacles. Additional features: fold down cast aluminum platform; fold down handle with safety side locks; bungee cord tie; fold flat wheels. Folds down to 2-1/2". ***Lifetime Warranty against defects in materials.***

No. 336BE781 ..... **$103.15**

Demonstrate Product Right From The Cart!

G. Instrument Cart

Open the 4-wheel cart. Clip on the tray at 28". Transport large equipment like personal computers, medical diagnostic equipment and more directly to the user and demonstrate the equipment on the spot. Rear wheel brakes keep the cart where you want it. Double-quick release web straps secure your load to upper tray. Fold flat when not in use. **Features include:** CART: 400 lbs. cap., TRAY: 80 lbs. cap.; (H x W x D) OPEN: 48" x 12.5" x 15.7"; Top Tray Size: 28" x 19" x 17"; Wheelbase 15"; Wt.: 25 lbs. ***Lifetime Warranty.*** **(USA)**

No. 274BE002 ..... **$254.95**

H. Professional Service Cart

This 3-in-1 cart can change from a 2-wheel cart, to a 4-wheel cart, to a folding table. Complete with tie down straps and heavy-duty wheels to safely carry your equipment. **Specs:** Weight Guarantee: 300 lbs; Axle Diameter: 5/8"; Cart Weight: 25 lbs; Wheel Diameter: 7"; Adjustable handle height: 47"; Storage Dimensions: 28"H x 18"W x 9"D; Platform Size: 14" x 13"; Table Size: 24" x 16"; Table Capacity: 100 lbs. ***Ten-Year Warranty.*** **(USA)**

No. 666PR2500 ..... **$199.00**

EX Series™

The glass-reinforced nylon shroud, laminated-steel lock body and hardened-steel shackle offer exceptional resistance to an attack of any kind and protects the lock mechanism from all types of weather. ***Lifetime Guarantee.*** **(USA)**

No. 543AC700 ..... **$7.55**

Four Pin Tumbler

1-1/8" long laminated case. Pin tumbler security. Steel shackle. diameter 3/16". Keyed differently. **(USA)**

No. 543MI030 ..... **$5.90**

"Set-Your-Own Combination" Luggage Lock

Security, convenience and style combine in this efficient lock. Windows make viewing the combination-numbers quick and accurate. The brass-plated steel shackle is corrosion resistant, and a black, zinc alloy body complements lockable. ***Lifetime Guarantee.*** **(USA)**

No. 543AC646 ..... **$3.75**

Solid Brass Case

3/4" long. Three pin tumbler. Case-hardened steel shackle, diameter 5/32". **(USA)**

No. 543MI010 ..... **$2.60**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Five Carts In One!

A. Rock N' Roller®

This cart converts into five different carts, weighs only 33lbs., and is designed to move loads up to 500 lbs. **Features:** Telescoping frame, from 34"-52" in length with 32" foldable sides to stack loads high; 10" x 3.5" pneumatic rear wheels; 5" x 1.25" front swivel casters that easily roll over rough surfaces and reduce shock to delicate equipment. It also features: Hard powder coated finish; Non-skid surface prevents load slippage; Stairclimbers; Foldable sides rotate and lock into place by pressing release cables; Expandable frame adjusts to load size; Caster brake; Meets airport baggage requirements. **(USA)**

No. 589AC010 ..... **$199.95**

B. Cobra Jr.

Your Cobra Jr. Cart has dual hand grips for improved control and 3 frame cross braces with a 12"W x 38"L bed. The overall height is 51.75". **Features include:** 18" wide noseplate for large loads; smooth, easy transition from 2 to 4 wheeled position; 10" x 3.5" pneumatic wheels; and large 5" x 1.25" swivel casters for use in the 4 wheel position. The capacity for 2 wheel is 500 lbs, the capacity for 4 wheel is 650 lbs. **(USA)**

No. 873PR293 ..... **$390.30**

C. Super Foldaway Platform Truck

Full-size platform truck that folds to the size of a briefcase. Strong, lightweight, interlocking aluminum frame. Easy-rolling, 4" diameter rubber casters (2 swivel, 2 rigid). Protective vinyl corner bumpers. Dual platform positions: 20"L x 16"W and 28"L x 16"W. Handle height: 32". Folded size: 20"L x 16"W x 9-1/2"D. Capacity: 300 lbs. Wt.: 19 lbs.

No. 873MI020 ..... **$179.20**

D. Telefolding Platform Truck

This Telefolding Platform Truck quickly converts from retracted to extended position with a push of a button. Features an anti-impact, non-skid polypropylene and aluminum deck, non-marking 4" mold on rubber wheels, and sponge rubber coated handle. **Specs:** Retracted: 17.5" x 21"; Extended: 17.5" x 29.5": Weight: 16 lbs.; Capacity: 330 lbs. **(USA)**

No. 873PR048 ..... **$190.20**

E. Folding Handle Platform Truck

These rugged platform trucks come in two convenient sizes and feature a: fold-down handle for easy storage; enamel finish with non-skid, heavy vinyl deck; and thick perimeter vinyl bumper.

400 lbs.; 29"L x 19"W Wt. 4" Casters ; Wt.25 lbs.

No. 873MI019 ..... **$116.50**

600 lbs.: 35"L x 23"W. 5 " Casters: Wt: 41 lbs.

No. 873MI035 ..... **$196.70**

E. The Famous "Two-in-One" Hand Truck

Converts in seconds from hand truck to platform truck – for the price of one! Solid performance is backed by heavy-duty 1" O.D. tubular steel frame. Double welded for extra strength. Easily handles loads up to 500 lbs. Rolls smoothly on large 10" x 2-3/4" semi-pneumatic load wheels and 5", rubber solid, front swivel casters. Measures 20"W x 48"H. Green enamel finish. Wt.: 46 lbs.

No. 673ST010 ..... **$185.50**

Close to Meet Airline Requirements!

F. 2 or 4 Wheel Airline Cart

Closed, it meets airline carry-on requirements. Opened, its unique rear wheel assembly provides stability, supports large loads and stair glides; folds up flush for storage or for climbing steps. Brakes on rear wheels and spring locks assure worry-free use. Features include: CART: 400 lbs. cap.; (H x W x D) OPEN: 52" x 16-1/2" x 31"; Load Tray Size: 16" x 12-3/4"; Wheelbase 15"; 3" rear wheels. Wt.: 19 lbs. ***Lifetime Warranty.***

No. 274BE880 ..... **$152.90**

G. 5-In-1 Plus Service Cart

This Multi-purpose service cart is Ideal for computer and sensitive equipment delivery & service and features four-wheel stability and up to 400 lb. capacity. Compact enough to fit in most car trunks. **Specifications**: 23-1/2"L x 19"W oak-color top with vinyl edge, 8" x 1-3/4" easy roll semi-pneumatic wheels, 2-1/2" Hard rubber swivel casters. Wt.: 50 lbs. Size open: 31"L x 19"W x 42"D. *Minor assembly required.*

No 873MI079 ..... **$211.40**

H. PFC Millennium Handtruck

Has a capacity of 275 lbs, and folds to a compact 27"H x 18"W x 9"D. This 4 wheel handtruck has 7" large heavy duty bearing wheels. Axle Diameter is 5/8" solid steel bar, adjustable height is 46", and platform size is 14" x 13". Handtruck weight is 17 lbs. ***Ten-Year Warranty.*** **(USA)**

No. 666PR2000 ..... **$120.00**

Trades Cart 2000

Organize and transport all your tools and equipment. This mobile workstation has a locking compartment that keeps your valuable tools or sensitive materials under lock and key. Features include: Four versatile parts boxes and two storage drawers; mounting bracket serves as electrical cord wrap; four compartmentalized parts boxes (two at each end); 150 lb. load capacity on top self; 200 lb on bottom shelf; two storage bins; lockable storage compartment; 6" heavy-duty casters. **(USA)**

No. 687BE808 ..... **$270.00**

Easy-Up Carts Mobile Instrument Cart

Support test instruments at convenient height & angle. Back support arm adjusts laterally to accommodate instruments of various sizes; pivots to avoid cords and other projections. Movable rubber snub keeps instruments in place. Tubular steel construction. Top 15-1/8" W x 19"D, overall height 34". Includes lower, laminated shelf. Wt.: 25 lbs. 100 lbs. capacity. **(USA)**

No. 324BE456 ..... **$80.50**

Same as above, but with wider top, 23"W x 19"D, overall height 34". Accommodates larger instruments or two instruments side by side. Wt.: 31 lbs.

No. 324BE458 ..... **$95.40**

Rubbermaid Flat Shelf Utility Cart

A mobile work station made of durable, structural foam that won't dent, rust or bend as some metal carts can. Features include: hand-guard for safety; handle bin for tools, parts and more; rounded plastic edges to prevent damage to doors and non-marking casters. Holds up to 400 lbs. Size: 19"W x 38"L x 33"H. Gray

No. 687BE505 ..... **$120.65**

Optional: Middle Shelf 19" x 30"

No. 687BE594 ..... **$37.70**

All Purpose Service Cart

Standard height 30"; top is 24" x 24". Legs and braces of 1" heavy-gauge tubing. Bright hot-dip galvanized – no chipping, no rusting. Lower laminated shelf. Wt.: 29 lbs. **(USA)**

No. 324BE045 ..... **$73.50**

Instrument Cart

Ideal for transporting instruments and supplies. This attractively-styled cart features lockable doors to secure contents and a sliding top drawer for additional storage. Additional features include smooth, easy-to-clean shelves and easy "pound-together" assembly. Comes complete with two molded handles and large, non-marking casters. 40-5/8" L x 20" W x 36-13/16" H. 300 lb. max. storage capacity. Gray. **(USA)**

No. 687AC094 ..... **$240.00**

Rubbermaid Mobile Work Station

This mobile work station not only has a large work surface, it offers you the convenience of a tool chest with ample storage. Made of molded plastic and metal, your station has heavy-duty, dual-lock 4" casters. 30-1/2"L x 20-1/4"W x 33-5/8". Black. **(USA)**

No. 687ST331 ..... **$184.30**

Light Duty Utility Carts

Tough Duramold® construction– won't dent, chip or flake, and is easy to keep clean. Special casters for quiet, easy maneuverability. No sharp edges to nick walls or furniture. No painting or maintenance needed. Sandalwood in color. 31-1/8"L x 18"W x 37-1/2"D with 300 lbs. max cap., the end panels are enclosed. *Assembly required.*

No. 687BE3355 .... **$204.30**

High Performance Utility Cart

Made of tough, structural foam, the shelves have a rim on three sides to prevent contents from spilling and one side open for easy loading. 4" swivel casters operate smoothly in any direction. 31.5"L x 16.25"W x 36"D, 200 lbs. capacity. Sandalwood. *Assembly required.*

No. 687BE3424 ..... **$130.10**

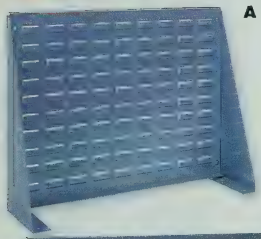
Heavy-Duty Utility Carts

Tough Duramold® construction; won't dent, chip, or flake. Its seamless construction, leakproof top is acid resistant and easy to clean. No sharp edges to damage walls or furniture. Five inch rubber casters. Gray. 400 lbs. capacity. *Assembly required.*

No. 687BE4500 32.25"L x 16"W x 30"D **$120.65**

No. 687BE4520 32.25"L x 24"W x 36"D **$136.80**

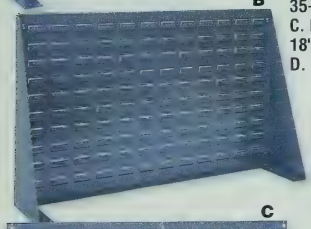
TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400


A

Akrobins Bench Rack

Welded steel, grey baked-enamel finish. Sturdy frame with side supports shipped assembled. No nuts or bolts required; Heavy-duty 120 lb. capacity. (*Bins not included*). **(USA)**

27-3/4"L x 8"W x 21"D.
A. No. 128ST250 ..... $42.00
36"L x 8"W x 21"D.
B. No. 128ST523 ..... $51.20
35-3/4"L x 19"H.
C. No. 128ST156 ..... $28.30
18"L x 19"H.
D. No. 128ST618 ..... $20.30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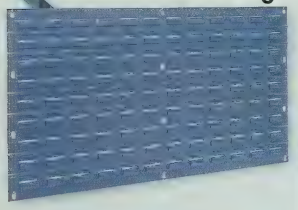
D


C

Rolling Or Stationary!

Akrobins Panel Rack

Snap Fastener Louvered Rack accepts seven different size bins (up to 192 bins) *Bins not included*. Rack sits stationary on the floor, convert it to a rolling rack by an optional set of wheels. (Optional Wheels add 5.5" to height.)
36"L x 20"W x 60"H.

E. Rack
No. 128ST626 ..... $317.50
F. Optional Wheels
No. 128ST424..... $73.60

E
F

ProCart™

Quickly and easily convert the ProCart™ to a flat-top or a box-top cart with one hand. Hinged side gates on both selves flip up and down for different cart configurations. No tools needed for conversion. Designed with molded-in compartments on the handles for holding your hand-held items securely during transport. Each shelf can hold 200lbs. **Features**: reinforced construction for rugged use; dent-resistant and rust-proof panels; Durable non-marking wheels with toe-touch locking rear wheels.

Large Cart - 45"L x 24"W x 32"H
No. 128PR309 ..... $200.00
Small Cart - 40"L x 19.5"W x 32"H
No. 128PR930 ..... $170.00

AKRO-MILS

Akrobins Plastic Storage Bins

Can be suspended from most straight rails. Extra-wide stacking ledge for stacking. Anti-slide stop keeps loaded bins stable. Large label card slot for easy labeling. Reinforcing ribs prevent bins from spreading. No cumbersome anti-spread bar required even on largest model. Finger grips for easy handling of larger bins. **(USA)**

TT No.	Color	Outside Dimensions L	W	H	Qty	PRICE
128ST098	Red				Each	$1.00
128ST100	Yellow	5-3/8"	4-1/8"	3"	Each	$1.00
128ST102	Blue				Each	$1.00
128ST210	Black	Divider			6/Pk.	$4.45
128ST106	Red				Each	$1.85
128ST108	Yellow	7-3/8"	4-1/8"	3"	Each	$1.85
128ST110	Blue				Each	$1.85
128ST221	Black	Divider			6/Pk.	$4.80
128ST114	Red				Each	$4.55
128ST116	Yellow	10-7/8"	5-1/2"	5"	Each	$4.55
128ST118	Blue				Each	$4.55
128AC230	Black	Divider			6/Pk.	$8.10
128ST354	Yellow				Each	$7.00
128ST356	Blue	10-7/8"	11"	5"	Each	$7.00
128AC230	Black	Divider			6/Pk.	$8.10
128ST392	Red				Each	$7.55
128ST394	Yellow	10-3/4"	8-1/4"	7"	Each	$7.55
128ST396	Blue				Each	$7.55
128ST122	Red				Each	$8.90
128ST124	Yellow	4-3/4"	8-1/4"	7"	Each	$8.90
128ST126	Blue				Each	$8.90
128ST218	Black	Divider			6/Pk.	$11.15
128ST124	Yellow	14-3/4"	8-1/4"	7"	Each	$8.90
128ST128	Red				Each	$12.50
128ST130	Yellow	14-3/4"	16-1/2"	7"	Each	$12.50
128ST132	Blue				Each	$12.50

Akrobins Louvered Panel Bin Racks

Basic louvered panel module is designed to lap together to form units. Can be mounted on walls, back of existing shelving, benches. carts, etc. This heavy-duty panel is 16 AWG cold rolled steel with horizontal reinforcing ribs. Slotted holes. 160 lb. capacity. **(USA)**

No. 128ST156 35-3/4"L x 19"H $28.30
No. 128ST618 18"L x 19"H $20.30

AKRO-MILS

Turntable Base

Akro-Mils1900 Storage-Go-Round System

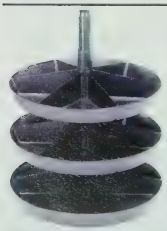
Adding this unique rotating system requires less than one square yard of floor space. The complete Storage-Go-Round consists of the 128ST320 turntable base with inset base, threaded rod, steel upright, metal cap, nutcap, washer and wood-stabilizing plate. This system holds up to twenty *Series 1900* cabinets (shown above) in any combination of your choice. *(Cabinets sold separately.)* 31"W x 31"D x 60"H. **(USA) Base Only.**

No. 128ST320 ..... **$457.40**

Akro-Mils Series 1900 Storage Cabinets

Buy as separate drawer units or combine with the "Storage-Go-Round" carousel base. Add-and-stack design allows you to add additional storage cabinets as needed. Size 17"L x 11"W x 11"D. The cabinet units are made of heavy-duty, chip-proof, baked-enamel-welded steel. The drawers are high-impact polystyrene with a large label slot. **(USA)**

	Cabinet No.	No. of Drawers	PRICE Each	Divider No.	PRICE 25/Pk.	Drawer No.	PRICE
A	128ST284	9	$77.15	128ST318	$9.20	128ST306	$5.95
B	128ST282	15	$77.15	128ST316	$8.55	128ST304	$4.80
C	128ST280	16	$77.15	128ST314	$7.00	128ST302	$3.70
D	128ST287	20	$77.15	128ST312	$5.75	128ST300	$3.15
E	128ST276	28	$77.15	128ST310	$8.95	128ST308	$2.85
F	128ST109	9	$104.25	128ST222	$5.75	128ST062	$.80



Carousel Storage System!

EZ Sort System

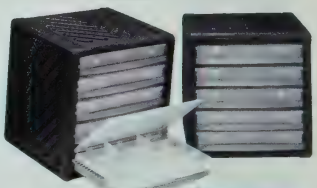
Three trays, 18 compartments. Each tray has six large compartments. Carousel allows for easy access to parts. Each tray can be lifted off and used individually. More than three trays can be stacked together, making the system easily expandable. Color: Black. Dims: 12" Diameter x 13-1/4" High. ***Seven-Year Ltd. Warranty.***

No. 337ST002 ..... **$19.95**

Satchel Cabinet

These textured polypropylene cabinets are lightweight, easy to move and carry, scratch resistant and dent proof. Stackable cabinets, they interlock top-to-bottom and side-to-side and accommodate multiple series boxes. Cabinet comes complete with five trays and five Infinite Divider System boxes. O.D. 15-7/8"H x 14-1/2"D x 15-1/2"L, Tray size: 13-9/16"L x 9-1/2"D x 2-3/16"H.

No. 379ST850 ..... **$72.25**

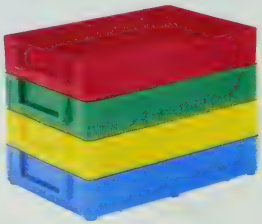


Flambeau

High-Impact Job Trays

Simple, uniform method for organizing work by color. Large trays are self-nesting with a label holder at each end. 9"L x 6"W x 1-1/2"H (I.D.).

No. 846ST014 Red
No. 846ST018 Green
No. 846ST016 Yellow
No. 846ST020 Blue
(1-39) **$2.25 ea.** (40+) **$2.10 ea.**



Infinite Divider System

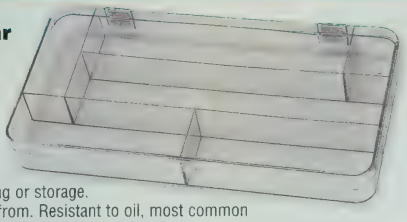
The IDS system provides flexibility, with 1/8" moveable dividers. Heavy-duty, solvent-resistant molded polypropylene. Heat-sealed hinges. Translucent. **(USA)** (#) = Dividers. e.g. (6)= 6 dividers. *Hardware not included.*

No. 379ST033 6-7/8" x 3-5/16" x 1-1/4" (6) **$3.35**
No. 379ST600 10-3/4" x 6-1/2" x 1-1/2" (5) **$6.30**
No. 379ST900 13" x 8-3/8" x 1-7/8" (16) **$11.20**

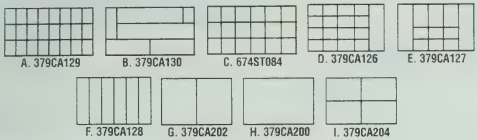
Flambeau

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Tec-Tuff® Clear Parts Boxes



Transparent cellulose propylinate provides extremely sturdy, clear boxes for virtually any storage need. Excellent for tool kits and industrial packaging or storage.
Three sizes to choose from. Resistant to oil, most common chemicals and solvents and comes with rustproof metal hinges. **(USA)**

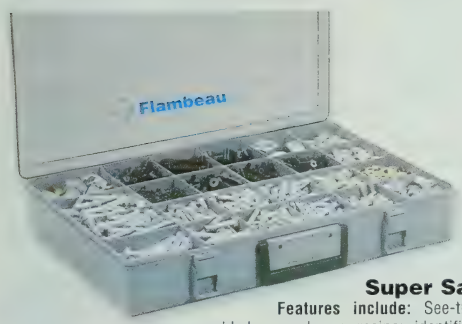


Large
24 Compartments,
12-1/8"L x 6-1/8"W x 1-1/2"D
A. No. 379CA129 ..... **$8.90**
6 Compartments,
12-1/8"L x 6-1/8"W x 1-1/2"D
B. No. 379CA130 ..... **$10.80**

Medium
18 Compartments,
8"L x 4-1/8"W x 1-3/16"D
C. No. 674ST084 ..... **$6.30**
17 Compartments,
7-1/8"L x 4-1/8"W x 1-1/8"D
D. No. 379CA126 ..... **$5.85**
11 Compartments,
7-1/8"L x 4-1/8"W x 1-1/8"D
E. No. 379CA127 ..... **$5.85**
6 Compartments,
7-1/8"L x 4-1/8"W x 1-1/8"D
F. No. 379CA128 ..... **$5.85**

Small
2 Compartments,
4-1/2"L x 2-3/4"W x 1-1/8"D
G. No. 379CA202 ..... **$3.65**
1 Compartments,
4-1/2"L x 2-3/4"W x 1-1/8"D
H. No. 379CA200 ..... **$3.65**
4 Compartments,
4-1/2"L x 2-3/4"W x 1-1/8"D
I. No. 379CA204 ..... **$3.65**

Note: Line Drawings Indicate Compartment Configuration.
Quantity Discounts Available.



Super Satchels

Features include: See-through lid; molded, co-polymer resins; identification card holder and brass-pinned hinges. Will not rust. Offers a flexibility in storage and will out-perform standard industrial slide rack boxes. Storing them flat or upright allows options for developing custom storage systems. With two draw-tight latches, a luggage-style handle and lighter weight (3.5 Lbs.), Flambeau Super-Satchel Cases are 100% portable. 24 compartments. 18-1/2"L x 12-1/2"W x 3"D OAL. *Hardware not included.* **(USA)**
No. 379CA024 ..... **$25.25**

New!

Metal Storage Organizer Cabinet

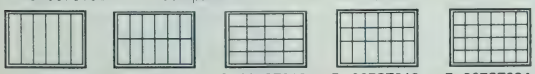
These auto welded steel cabinets have electrostatically powder coated finish for a high quality, chip-proof finish. The clear drawers allow ready identification of components, and low profile mounted handles for durability and ease of use. OAL: 5-3/4"D x 12"W x 22"H. **(USA)**
Drawer Size:
5-1/4"L x 1-7/8"W x 1-3/8"H
No. 674PR226 ..... **$30.50**
Drawer Size:
5-1/4"L x 2-1/2"W x 1-3/8"H
No. 674PR224 ..... **$30.50**

Plastic Compartment Boxes

Ideal for organizing, storing and protecting all small parts. Manufactured of high-strength polypropylene, these transparent boxes have heavy-duty reinforced hinges that allow the cover to remain in the semi-open position. Two snap latches assure secure closure. Available in five configurations. **Size:** 13-1/8" x 2-5/16" x 9". **(USA)**

A. No. 307ST006 6 Compartments **$7.00**
B. No. 307ST012 12 Compartments **$7.00**
C. No. 307ST016 16 Compartments **$7.00**
D. No. 307ST018 18 Compartments **$7.00**
E. No. 307ST024 24 Compartments **$7.00**

DURHAM



A 128ST034
B 128ST036

Compact Economy Cabinets

Organize and protect your small to medium-sized components or parts in these welded-steel-frame storage units. Transparent styrene drawers can be partitioned with dividers. 18"W x 9-1/2"H x 6"D. **(USA)**

Cabinet No.		No. of Drawers	PRICE/ each	Divider No.	PRICE 25/Pk.	Drawer No.	PRICE
128ST034	A	18	$51.70	128ST222	$5.75	128ST064	$1.40
128ST036	B	36	$51.70	128ST220	$3.35	128ST062	$.80

Tool ESD Safe

3M Service Vacuum Cleaner

Weighs nine pounds, is easy to handle and travels well. Disposable cartridges with quick removal and no mess. High-capacity filtration system gives you a choice of two filters. High-impact plastic case with replaceable handle, latches and hinges. Everything you need stores inside the lid. Replaceable 1HP motor gives you maximum cleaning power for speed and efficiency. Complete with: Hose, 32"-10 ft.; wand crevice tool; crevice tool brush; dusting brush; needle nozzle. Optional: Nylon 44" adjustable shoulder strap. ***Three-Year Warranty.***

No. 525PO497 115V/60HZ. 3A..... **$205.00**
No. 525PO498 220V **$310.00**
No. 525PO007 Shoulder Strap (Optional) **$14.00**
No. 525MI001 Needle Nozzle **$10.00**

3M Filters: 3M Filters have a higher collection capacity than other vacuum systems. Each filter is encased in a durable plastic container which virtually eliminates spillage and makes them easy to remove and safe for disposal. Larger capacity requires replacing less often. When the filter is full, the whole cartridge is simply removed and discarded.

Type 2 **Powder Toner and Common Dust Filter:** Designed to remove unwanted toner from copiers, laser printers and other office equipment.
No. 525PO002..... **$15.00**

Type 1 **Fine Particle Filter:** A thinner, more concentrated weave (HEPA media) for trapping extremely fine particles. Typical applications–laser printers using toners in the range of .3 to .5 microns and highly-sensitive equipment.
No. 525PO001 ..... **$26.00**

3M Service Vacuum In A Tool Case

Now, service technicians can carry virtually everything they need: all their tools, manuals, paperwork and, of course, a 3M Service Vacuum. Case features: two tool pallets,on of which doubles as a flat workstation for intricate jobs; a storage pocket for manuals & paperwork; and the 3M Service Vacuum Cleaner with 32"-10 ft. hose, wand, crevice tool, crevice tool brush,and dusting nozzle.115V. ***Three-Year Warranty.*** **(USA)**
No. 525CA483 ..... **$330.00**

Compact Vacuum Cleaner

This powerful, compact 6-1/4" x 14-1/4" canister vacuum has a straight-thru motor for dry pick-up. Filters remove dirt from air before reaching the motor. Only five pounds, this lightweight vacuum is made from high-impact thermoplastic with a 6.2 A motor. **Features:** built-in rear wheels; handy carrying handle; 18' cord; large disposable paper filter bag. Includes: 3' x 1-1/4" hose, utility nozzle, crevice tool and mounting bracket. **(USA)**
No. 575PR346..... **$93.75**

Disposable paper filter bags - 3 Pack
No. 575AC305..... **$5.10/Pk.**

Convenient, Powerful Hand-Held Portable Vac!

Hippo® Shop-Vac® Brand

Perfect for office/computer equipment, audio-visual equipment and printers as well as general cleaning of shelves, bins or work bench. Combines dependable power with lightweight portability. Permanently lubricated 1.5 PHP motor. Efficient dual-filter system includes convenient disposable filter bag. Converts to a blower. **Includes:** shoulder strap, 6'L x 1-1/4"W hose, 1-1/4" diameter extension wand, crevice tool, round brush, 6" utility floor nozzle, conversion unit, 2-1/2" hose coupling, secondary filter and paper filter bag. Cord length: 18'L. 120V/60 Hz, 7.2A. **(USA)**
No. 705PR999..... **$152.95**

Back Pack Vac

This lightweight Back Pack Vac is designed to tackle large areas with minimum effort. A convenient tool belt, and aluminum wand ensures easy use; the compact size allows you to store it in a small area. Features: Full-circumference washable filter bag; two-stage filtration system with disposable fine dust collection bag; tool storage on belt; 50' power cord. **Specs**: VAC 120/60, 7.5A: 2.0 Peak HP Two-Stage; Current: AC; Capacity: 7 Quarts dry. **(USA)**
No. 705PR285..... **$509.95**

New!

Wet/Dry Vac

Eight-gallon, lightweight poly tank with drain. Holds up to seven gal. dry and six gal. wet. Accessories: 1-1/4" dia.; 8' hose w/hand grip & airflow control; two metal extension wands; 10" combination wet/dry nozzle w/squeegee insert; dual-surface selector nozzle; crevice tool; round brush & gulper nozzle; tool basket. Specs: sealed pressure 65"; air flow 195cfm; 15-3/8"W x 18"D x 23"H; cord length 18'; Electrical rating 120V 60Hz, 11A. **(USA)**
No. 705PR928 ..... **$195.95**

Cartridge Filter - 5 Pack

For small debris, dry material and wet pick-up. To be used with non-hazardous, non-corrosive, and non-flammable materials only. Fits most wet/dry vacs.
No. 705PR305 ..... **$11.29 5/Pk.**

Premium Filter Bag - 5 Pack

Easy to install and use for fine dust and powders. To be used with non-hazardous, non-corrosive, and non-flammable materials only. Fits five, six and eight gallon vacs. 5/Pk.
No. 705PR304 ..... **$79.99 5/Pk.**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Data-Vac/2BA Pro Series

Handle your hi-tech electronic cleaning jobs with this lightweight (7 Lbs.) vacuum/blower. This hi-tech speed vacuum/blower has an optional toner filter system available that picks up toner spills and is 99.9%, efficient on particles to .3 microns. The Data-Vac/2 includes: Deluxe power unit (1.17 PHP Motor), Halo cord storage, 3' flexible hose, 2-20' extension wands, "Pik-All" Nozzle, "Powerizer" air maximizer, Crevice tool, Soft bristle dusting brush, Air "Pin Pointer", Shoulder strap and three disposable bags plus four piece micro cleaning tool kit. 120 V/60Hz, 6.5A. ***Two-Year Guarantee.*** **(USA)**

No. 555PR200 ..... **$177.50**

No. 555PR005 Disposable paper bags 5/Pk **$7.50**

Optional:
Toner Cleaning Kit DataVac 2 & 3
Use to clean-up messy copier toner. **Includes:** five special toner filter disposable bags, two fiber glass micro filters, 3' flexible hose, crevice tool and air "Pin-Pointer".
No. 555PR001 ..... **$50.00**

Service Techs: Clean ATMs, Photocopiers And More...

Data-Vac/3 Pro In Carrying Case

Use the service tech version of this high-powered vacuum/blower to maintain all your office equipment... micros to main frames, printers, disk drives, automatic teller machines and more. With its toner filter system, it can be used to clean out photocopy machines and laser printers. **Features include:** triple filtration system (disposable toner replacement bag, permanent cloth bag, micro fiberglass filter); study, all-steel construction; powerful 1.7 PHP motor and convenient cord storage. Complete with total cleaning package: dual-purpose, portable power unit; 3' flexible hose; two 20" extension wands; "Pik-All" nozzle; powerizer air maximizer; crevice tool; soft bristle dusting brush; air pin-pointer; convenient shoulder strap; two extra disposable toner bags; one micro filter; micro cleaning tool kit; "snorkel probe", packed in a foam-filled carrying case with lift out attachment tray. 120V/60Hz, 6.5A. ***Two-Year Guarantee.*** **(USA)**

Data-Vac/3 Pro Series With Case
No. 555AC300 ..... **$300.00**

Data-Vac/3-220V Vacuum
No. 555PR004 ..... **$217.50**

Data-Vac/3 & Micro Cleaning Kit (No Case)
No. 555PR030 ..... **$217.50**

Disposable Paper Bags 5/Pk
No. 555PR005 ..... **$7.50**

Optional: Toner Cleaning Kit DataVac 2 & 3
Use to clean-up messy copier toner. Includes: five special toner filter disposable bags, two fiber glass micro filters, 3' flexible hose, crevice tool and air "Pin-Pointer."
No. 555PR001 ..... **$50.00**

Hoover

Commercial Guardsman™ Upright Vacuum

This vacuum collects dirt into a commercial duty E-Z Empty™ dirt cup, eliminating vac bags. Built for rugged use, the base of the cleaner is made of Lexan 500. **Features include:** two brush, steel ball bearing agitator; dual edge cleaning; fingertip switch; four-position height adjustment; clear, three position non-marking vinyl hand grip and furniture guard. Double insulated unit. 35' cord.
One-Year Commercial Warranty.
No. 442MI429..... **$257.25**

Includes Micro Cleaning Tool Kit!

Metro Data-Vac/1 Pro Series

Your *Data-Vac/1* makes cleaning computer and office equipment a breeze. This fully-portable computer vacuum cleaner/blower is engineered to get into those tight, hard-to-reach spots on your peripherals. **Includes:** power unit; 19" flexible hose, crevice tool, air "pin-pointer;" soft bristle dust brush; convenient shoulder strap; plus five extra reusable/disposable paper bags and the new micro cleaning tool kit. *120V/60Hz, 1.73A.* ***One-Year Guarantee.*** **(USA)**
No. 555AC100 ..... **$82.50**

Data-Vac P.C.™

Cleans keyboards printers, photo graphic audio/visual equipment, and all office electronics.Three micro attachments include: crevice tool, two micro dusting brushes, and two filter bags. 50W, 120V, 60Hz.
No.555AC400 ..... **$26.50**
No. 555AC500 5/Pk. Replacement filters.... **$3.50**

Kick Stools

A. Kick Stool

A full 13" tall with retractable wheels. Kick it into position, then step up – the casters retract instantly and the anti-skid bottom ring holds you and the stepstool firmly in position. Doubles as auxiliary seating. Supports up to 300 lbs.
No. 687MI524 .... **$37.70**

B. Kik-Step Stool

300 lbs. load capacity. Rolls anywhere; wheels retract when you stand on Kik-Step. Overall height 14". Floor area 15-5/8". ***Ten-Year Warranty.***
No. 276BE014 ..... **$73.50**

C. Bevco Maintenance Repair Stool

Ideal for factory, warehouse and shop applications that require crouching or bending. Convenient storage tray holds tools and parts. 15" diameter black polyurethane seat has pneumatic height adjustment (16"-21"). Sturdy five-legged steel base provides stability and safety. Lockable, 3" heavy-duty casters for easy use and smooth movement on all surfaces. Black. ***12-Year, "Intensive-Use" Guarantee (Lifetime on cylinder).*** *Tools Not Included.* **(USA)**
No. 190BE305 ..... **$165.50**

TEC-CUT®

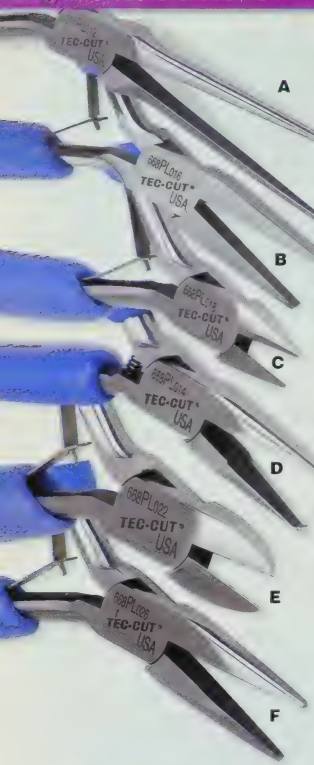
How Techni-Tool® Solved the Plier and Cutter Riddle!

With so many hand tool companies claiming their Electronic pliers and cutters are the best, how do you know what really works best?

To solve this riddle, Techni-Tool® invited hand tool companies in the USA, France, Switzerland, Italy and other countries to compete to develop a Techni-Tool® line of fine electronic hand tools. Hundreds of tools were tested. Dozens of manufacturers were eliminated. Only the finest were selected.

Tec-Cut® pliers and cutters are the result of over 41-plus years of testing, refinement and our commitment to provide end-user value. Tec-Cut® pliers and cutters are truly the best-of-the-best. You can count on it. Our name is on every one!

ERGONOMIC DESIGN!



Perfect For Small Electronics!

Tec-Cut® Mini-Electronic Pliers & Cutters – ESD Safe

These pliers are hot-drop forged from the finest steels, carefully hand induction heat treated, hand sharpened with satin-finish, spring leaf, performs/tested to *ASME B107.25M* and US government specs. Body hardness 41-43 R^c. Cutting edge hardness 57-63R^c. **(USA)**

A. Needle Nose Pliers, 2" Smooth Jaw. 5-3/4" OAL.
No. 668PL012 $11.10

B. Duck Bill Pliers, 1-1/8" Smooth Jaw. 5" OAL.
No. 668PL016 $11.10

C. Diagonal Straight Cutter, 1/2" Flush Jaw. 4-3/8" OAL.
No. 668PL018 $11.50

D. Transverse End Cutter, 1" Flush Jaw. 4-3/4" OAL.
No. 668PL014 $11.10

E. Oval head Semi-flush Diag. Cutter, 4-1/4" OAL.
No. 668PL022 $11.50

F. Chain Nose Pliers, Smooth. 4-3/4" OAL.
No. 668PL026 $11.10

G. Chain Nose Pliers, Serrated Jaws. 4-3/4" OAL.
No. 668PL024 $11.10

H. Chain Nose Pliers, with Cutter. 4-3/4" OAL.
No. 668PL010 $11.50

J. Long Nose, Subminiature Smooth Jaw. 4-1/2" OAL.
No. 668PL020 $10.30

K. Angled Flush Cutter, 4" OAL
No. 668PL042 $12.35

L. Round Nose Looping Pliers, 4-1/2" OAL.
No. 668PL040 $15.10

Fine Electronics Miniature Pliers Set - 4 pc

Includes: four pliers which feature ESD foam grips: one thin-head, diagonal flush, 4" OAL; one oval-head, diagonal flush, 4" OAL; one thin-nose serrated, 5-1/2" OAL; and one subminiature, long-nose serrated, 4" OAL. Black zipper case. **(USA)**
No. 668PL700 .. $53.80

Mini-Electronics Kit - 6 pc

Includes: needle nose pliers, 2" scored jaw, 5-3/4" OAL; duck bill plier, 1-1/8" smooth jaw, 5" OAL; diagonal straight cutter, 1/2" flush, 4-3/8" OAL; transverse end cutter, flush, 4-3/4" OAL; oval head semi-flush diagonal cutter, 4-1/4" OAL; chain nose plier with cutter with serrations, 4-3/4" OAL. Zippered pouch. **(USA)**
No. 668PL028 .. $66.40

TEC-CUT® Economy ESD Nippers

Lightweight- Easy to handle. Thousands of cuts on soft copper wire to .039". 21° Angle..100" Thickness. 5-1/8" OAL.
M. No. 651TE028 ..... $13.15

Same as above with wire-catcher
N. No. 651TE038 ..... $14.25

Thicker Body- More strength without weight. These cutters are reinforced for the same long lasting qualities as the No. 651TE028 & will cut soft copper wire to .040". 21° Cutting Angle. 118" Thickness. 5-1/8" OAL.
P. No. 651TE044 ..... $13.15

Reinforced with wire catch. 5-1/8" OAL.
No. 651TE052 *(Not Shown)* **..... $14.25**

Tec-Cut heavy-duty diagonal.
20° Angle, .120° Thickness. 6" OAL.
Q. No. 651TE066 ..... $17.00

Short nose with thicker body profile.
Jaws are specially hardened to cut hardened copper & iron wire up to .059". Semi-flush edges. 21° Angle, .120" Thick. 5-1/2" OAL.
R. No. 651TE062 ..... $15.35

Short nose with thicker body profile.
Jaws are specially hardened to cut hardened copper & iron wire up to .059". Semi-flush edges. 21° Angle, .120" Thick. 5-1/2" OAL.
R. No. 651TE062 ..... $15.35

Short nose with wire catcher.
Same as above with wire catcher
No. 651TE064 ..... $18.50

S. Fine Flush SMT Micro Cutter
This micro tool is for SMT work. 4.75" OAL.
No. 606PL001 ..... $28.50

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

TEC-CUT INFINITY® Cutters and Pliers

Precisely machined, each plier and cutter is made to enable the user to repetitively cut electronic grade materials with comfort and convenience. The special grade steels and computer controlled manufacturing techniques create durable tools with perfectly formed surfaces and cutting edges that average 62° R°. Some models have built-in stops to prevent cutting blade overbite and excessive wear.

A. Semi-Flush Diagonal Cutter
Rounded head cutting capacity up to 20 AWG (.040") in soft copper. 4-1/2" OAL.
No. 533PL711 ..... $33.25

B. Flush Cut Oblique Cutter
Cuts between component leads. Will cut soft wire up to 20 AWG (.040"). 4-5/8" OAL.
No. 533PL503 ..... $42.25

C. Flush Cut 40° Angle Tip Cutter
Cutting capacity. 22 AWG (.032") soft copper & up to .010" hard wires .030" in nickel ribbon. 4-7/8" OAL.
No. 533PL582 ..... $39.35

D. Semi-Flush Diagonal Cutter
Capacity to 16 AWG (.064") in soft copper & (.040") in nickel ribbon wires. 4-5/8" OAL.
No. 533PL511 ..... $30.95

E. Miniature Tapered Diagonal Cutter
A relieved head. Designed to cut up to 22 AWG (.032") in soft copper wire. Flush cut. 4-1/2" OAL.
No. 533PL776 ..... $32.25

F. Miniature Tip Cutter
Tapered & relieved head for cutting capacity to 22 AWG (.032") in soft copper wire. 5" OAL.
No. 533PL588 ..... $40.55

G. Tapered Flush Cut Diagonal Cutter
Capacity of 22 AWG (.032") in soft copper wire. Relief on head. 4-5/8" OAL.
No. 533PL592 ..... $32.85

H. Tapered Flush Cut Diagonal Cutter
The industry standard with cutting capacity to 20 AWG (.040") on soft copper wire. 4-5/8" OAL.
No. 533PL595 ..... $29.25

J. Fine Round Nose Plier
Smooth concentric tapered jaws. No-mar coiling and forming. Shear Cutter behind joint. Jaw length - 3/4". 5-1/4" OAL.
No. 533PL543 ..... $31.55

K. Fine Flat Nose Plier
Smooth jaws with radius edges for no-mar forming. Shear Cutter behind joint. Jaw length: 1-3/4". 5-1/4" OAL.
No. 533PL542 ..... $32.25

L. Chain Nose Plier
Plier with radius edge. Smooth inside jaws for mar-free bending and coiling. Shear Cutter behind joint. Jaw length - 3/4", 5-1/4" OAL.
No. 533PL544 ..... $31.55

M. Transverse End Cutter
Cutting capacity to 26 AWG (.020") in soft copper wire. Shear Cutter behind joint. The cutting edges are 1/8" wide. 4-7/8" OAL.
No. 533PL573 ..... $37.55

Tec-Cut® Infinity™ Cutters & Pliers Kit - 6 pc

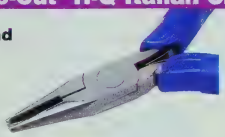
Features six *TEC-CUT INFINITY* SERIES cutters & pliers in a pouch. Includes the following: 533PL595, 533PL582, 533PL503, 533PL511, 533PL543, 533PL544 and pouch.

No. 758PL006 ..... Reg ~~$204.90~~ *SPECIAL* **$189.90**

Fine Oval Head Tapered Cutter
High strength shearing cutter with small head design. Jaw length .433" .4.25" (110mm) OAL.
No. 533PL1611 ..... $30.95

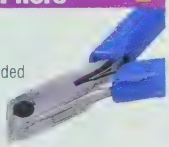
Tec-Cut® H-Q Italian Chrome Vanadium - Dual Leaf Springs High Quality Pliers

Transverse End Cutter
Cuts .125 soft copper–Flush cut edges. Jaw width .125". 4-5/8" OAL.
No. 758PL058 ..... $23.95
No. 758PL060 Flush Cut **..... $25.25**



Subminiature Long Nose Pliers
Very fine point for delicate work in very confined areas. Rounded edges, with grips and springs.
No. 758PL056 4-1/8" OAL **..... $17.40**
No. 758PL062 Serrated **..... $17.75**

Angle Blade Flush Cutter
Blades are 9/16" long, rounded on back and angled at 10°. For cutting soft copper wire (.025). 4" OAL.
No. 758PL054 ..... $31.00



TECHNI-TOOL
Fax: 1-800-854-8665

TEC-CUT *Ergonomically-shaped, non-slip elastomer grips, non-glare black finish & lightweight. Ultra-slim profile for access in high density areas.*

A. Standard Flush Cutter
Shear cutting action reduces cutting effort and provides the shear cut required in Mil. Spec. work. (Will not accept safety clip.) Flush cuts soft wire up to 20 AWG (0.8mm).
No. 758PL172
(1-9) **$5.95** (10-49) **$5.50** (50-99) **$4.95**
No. 892PL170
Anti-Static grips ..... **$6.20 ea.**

B. Full Flush Cutter
Cuts soft wire up to 20 AWG (0.8mm). Best choice for Mil. Spec work. Will accept low-profile safety clip.
No. 758PL173
(1-9) **$9.65** (10-49) **$9.25** (50-99) **$8.90** (100+) **$7.90**
No. 892PL082 Anti-Static grips ..... **$10.70 ea.**
With Factory Installed Safety Clip
No. 758PL174
(1-9) **$9.65** (10-49) **$9.25** (50-99) **$8.90** (100+) **$7.90**
No. 892PL083
Anti-Static black grips ..... **$13.15 ea.**

C. Angled Flush Cutter
Flush cuts wire up to 20AWG (0.8mm). Angled head provides excellent sight when used in either vertical or horizontal position. Slim profile.
No. 758PL175 ..... **$12.95**

D. Cut & Crimp Tool
Slim profile provides excellent sight. Swaged leads are firmly attached to PCB while freshly exposed lead material enhances solderability. Cuts and crimps soft wire up to 20 AWG (0.8mm).
No. 758PL179 ..... (1-9) **$16.30** (10-49) **$15.35** (50-99) **$14.50** (100+) **$11.90**

E. Short Nose Plier
Extra slim profile. Round back on jaws for forming operations. Strong enough to crimp a lead wire, precise enough to pick up and hold human hair.
No. 758PL176
(1-9) **$9.00** (10-49) **$8.55** (50-99) **$7.95** (100+) **$6.60**

F. Flush Cutter
This Flush Cutter features a subminiature (Extra Tapered) head for access into extremely restricted areas. Black finish reduces eye strain and enhances contrast for more precise positioning. Cuts from less than one mil up to 18 AWG.
No. 892PL250 ..... **$20.35**

G. Kevlar® Fiber Cutter
Specifically manufactured for cutting the Kevlar® components of fiber optic cables. The serrated edge prevents the fibers from "squirting" out the front of the shear while cutting. Cutting edges are heat treated to a hard 57-59RC.
No. 892PL180..... **$16.10**

H. Electronics Long Nose Plier
A thin profile for access in high density areas, ergonomically-shaped.
No. 758PL177 ..... **$9.15**

J. Hard Wire Cutter
Shear cutter, spring loaded. Holds and keeps material at 90° to the tool blade to ensure square cut ends; captures the material on both sides of the jaws eliminating flying segments. Music wire capacity is .062" AWG. Stranded cable capacity is 1/16". **(USA)**
No. 272PL134 (134-CG) **$34.50**

K. Diagonal Cleanroom Cutter
Stainless steel with flush cutting edges. Will cut 22" AWG and smaller soft non-ferrous wire to .018" AWG.
No. 272PL025 4" flush **$52.00**
No. 272PL213 4-1/2" flush..... **$52.60**
No. 272PL215 5" flush **$52.90**

L. Shear Rise Cutter
Combines a full flush, shear cut and a 0.035" stand off in one cut. Ideal for manufacturers who need a stand off and must satisfy Mil. Spec. requirements. Full flush cuts on soft wire up to 20 AWG (0.8mm).
No. 758PL178
(1-9) **$16.30** (10-49) **$15.35** (50-99) **$14.50** (100+) **$11.90**

M. Music Wire Shear
This large, full bypass, hard wire shear gives you a shearing cut combined with high mechanical advantage; makes cutting iron and hardened, tempered steel wire up to 12 AWG, seem effortless. Return spring. Cuts music wire up to 0.040" (1.00mm) diameter.
No. 892PL194 ..... **$11.00**

N. Music Wire Shear
This shear includes a self-adjusting, clamping fixture which holds material being cut perpendicular to the cutter jaws, adding significantly to the precision of the cut and cutting capacity. Gives square ended cuts on both the cut and off-cut sides. Cuts music wire up to 0.060" (1.5mm).
No. 892PL193 ..... **$20.00**

TEC-CUT Super-Micro Series

Japanese Design. This series of production pliers and cutters are made of the finest, precision-ground tool steel.

Super Micro Diagonal Cutting Plier
With smooth acting internal spring, for max. 1.0mm dia. copper wire. Size: 100mm.
P. No. 692TE010 ..... $50.55

Wire Stripper for Optical Fiber Wire
For stripping of Fiber-Optic communication fibers. For 125 µm dia. optical fiber wire.
Q. No. 692TE016 ..... $65.95

Super Micro Long Flat Nose Plier
With smooth acting internal spring, for picking up 0.08mm fine wire. Size: 125mm.
R. No. 692TE018 ..... $54.95

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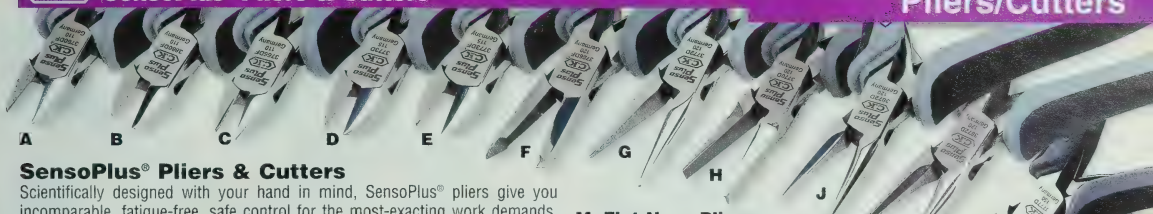
or 1-610-941-2400

C.K SensoPlus® Pliers & Cutters



SensoPlus® Pliers & Cutters

Scientifically designed with your hand in mind, SensoPlus® pliers give you incomparable, fatigue-free, safe control for the most-exacting work demands. Cutters are made of chrome vanadium steel; pliers of carbon steel. **Features include**: soft, comfortable and slip-free, thermo-plastic-compound, mid-size comfort grips; an anti-slip bow for pinpoint control; a spot-welded, double-leaf spring ensures consistently repeatable functioning; a precision box joint for butter-smooth action; and long-life cutting edges are induction hardened to 60-63 HRC hardness to maintain cutting ease. *U.S. Patent Des.406.520* (Germany)

A. Full Flush Side Cutters
Tapered Head.
No. 217PL380 4-1/2" OAL.... **$42.15**

B. Full Flush Side Cutters
Oval Head. 4-1/2" OAL.
No. 217PL880..... **$42.15**

C. Full Flush Side Cutters
Tapered and Relieved Head.
No. 217PL366 4-1/2" OAL.... **$43.00**

D. Mini-Bevel Side Cutters
Oval Head. 5" OAL.
No. 217PL737..... **$39.70**

E. Full Flush Side Cutter
Oval Head. 5' OAL.
No. 217PL377..... **$39.70**

F. Full Flush Oblique Cutter
Slim Head. 5-1/4" OAL.
No. 217PL763..... **$49.55**

G. Snipe Nose Pliers
Straight, Smooth Jaws. 5-1/4" OAL.
No. 217PL372..... **$32.85**

H. Flat Nose Pliers
Smooth Jaws. 5-1/4" OAL.
No. 217PL770..... **$32.85**

J. Ultra-Fine, Snipe-Nose Pliers
Chamfered edge, smooth jaw. 5-1/4" OAL.
No. 217PL872..... **$47.95**

K. Tweezer-Like Tips
Finepointed jaws. Chambered edge. 5-1/4" OAL.
No. 217PL387..... **$47.95**

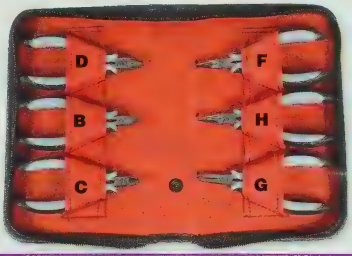
L. Snipe Nose Pliers
Serrated jaws, straight. 1-1/2" Jaw. 1/16" Tip. 6-1/2" OAL.
No. 217PL3777..... **$38.00**

M. Flat Nose Pliers
Relieved and narrow jaws for straightening SMD component leads. Smooth Jaw at .87" and a .047 tip. 5-1/4" OAL.
No. 217PL741..... **$47.95**

N. Side Cutter
Full flush, mini-bevel. Cutting Jaw .35". 4-1/2" OAL.
No. 217PL740..... **$42.15**

P. Diagonal Carbide Jaws Cutters
Micro-Bevel, oval-head side cutters w/tungsen carbide jaws-for stainless steel wires, axially round or flat coiled. 4-1/2" OAL.
No. 217PL327..... **$105.00**

ERGONOMIC DESIGN!



C.K. Cutters & Pliers Kit - 6 pc

Your six-piece cutters & pliers set comes in a zipper wallet. (Germany)
No. 217PL703 .... **$280.00**

C.K Premier Grip Pliers & Cutters

Standard Grip C.K. Pliers & Cutters

Superb quality, hand polished. Hot-drop-forged electronic pliers with box joints. Special analysis steel for durability, now with comfortable, static-dissipative grips for ESD control. (Germany)

A. Diagonal Side Cutters
Oval head. Mini bevel. 4-1/2" OAL.
No. 217PL773..... **$37.55**

B. Diagonal Full Flush Cut
No. 217PL379 4-1/2" OAL. **$37.60**

C. Diagonal Side Cutters
Tapered head. Full flush. 4-1/4" OAL.
No. 217PL780..... **$40.00**

D. Angled Flush Cutters
Oblique head angled at 29°. Full flush. 4-1/4" OAL.
No. 217PL799..... **$47.75**

E. Diagonal Cutters
Tapered head with mini-bevel cut. 4.5" (115 mm) OAL.
No. 217PL810..... **$39.90**

F. Diagonal Side Cutters
Tapered and relieved head. Full flush. 4-3/4" OAL.
No. 217PL766..... **$40.90**

G. Oblique Tip Cutters
Extra-long jaws for confined spaces. Full Flush. 4-3/4" OAL.
No. 217PL786..... **$47.40**

H. Full Flush Oblique Tip Cutters
Extra-long, slim jaws for SMD use and very-confined spaces. 4-3/4" (120 mm) OAL.
No. 217PL871..... **$72.90**

J. Diagonal Cutters
Full-flush, tapered-head cutters. 4.5" (115 mm) OAL.
No. 217PL882..... **$39.90**

K. Dip Pin Cutter
Angled, inside-cutting edges reach over IC's for easy cutting of pins behind component. 5.25" (130 mm) OAL.
No. 217PL875..... **$83.55**

L. Diagonal Cutters
Heavy-duty, oval-head cutters with mini-bevel cut 5.25" (135 mm) OAL.
No. 217PL775..... **$40.45**

M. Chain Nose Pliers
Long snipe nose with serrated inside jaws. 5.75" (150 mm) OAL.
No. 217PL777..... **$35.40**

N. Diagonal Cutter
These pliers are made of Tungsten carbide cutting edges with relieved jaws and pointed head, and black, dissapative sleeves. 4.5" OAL. (Germany)
No. 217PL3787..... **$102.80**

New!

Xcelite Bending Pliers

Xcelite

Extra Thin Slim Line Needle Nose Pliers

Spring-tempered jaws, precision machined to a fine 5/64" x 1/16" point. Plain jaws. Slightly beveled inside edges. Polished head.

Smooth Jaws
A. No. 272PL128 (NN54G) 5" OAL.... **$17.80**
Serrated Jaws
No. 294PL176 (NN54-2) 5" OAL **$15.95**
No. 294PL182 (NN55) 5-1/2" OAL **$15.95**

Curved Needle Nose Pliers

Angled for hard to get at places, as in heavy-duty electronic assembly and repair. Smooth Jaws.

Nose Bent @ 60°, 5" OAL.
A. No. 294PL014 (CN54G) **$16.10**
Nose Bent @ 45°, 5-1/2" OAL.
No. 294PL016 (CN55G) **$18.10**

Bent Chain Nose Pliers

Bent thin pliers; fine serrated jaws; 60° angle thin bent nose for handling fine wire in close quarters. 5-1/8" OAL.
No. 826PL066 (CN255)..... **$16.90**

Round Nose Wire Looping Pliers

Rounded on both sides of nose and precision ground to a fine point. 4-1/2" OAL.
No. 294PL200 (RN54)..... **$14.20**

Flat-Nose Pliers

For gripping & holding. Smooth jaws. No cutter. 5" OAL.
No. 294PL030 (DN54G) **$12.65**

Extra-Long Needle Nose Pliers

Radiused, full-polish long nose ideal for working in confined areas. Return spring. 3/16" Jaw.

Smooth Jaws
No. 826PL208 (LN77512G) 5-1/2" OAL **$16.50**
No. 826PL164 (NN777-6G) 6" OAL **$17.95**

Subminiature Needle Nose Pliers

These pliers are designed for fine, up-close electrical and mechanical work. Ideal for electricians, jewelers, opticians. Standard with polished head and serrated jaws. 4" OAL.

Serrated Jaws
No. 791PL004 (L4) **$13.00**
Unscored Jaws
No. 791PL005 (L4G) **$14.95**

Long Chain Nose Pliers

Long chain-nose pliers without side cutters. Fine serrated tips.

No. 294PL116 (LN54) 5" OAL..... **$13.85**
No. 294PL122 (LN55) 5-1/2" OAL..... **$13.95**

Long Nose Pliers

Long nose pliers with 9/16" sidecutter near copaloy joint. Scored jaws. 5" OAL.
No. 294PL236 (SN54)..... **$14.75**

Bent Chain Nose Pliers

Full-polish, precision, unscored jaws. Bent at 60° for gripping, twisting & looping fine wires in confined areas. Return Spring. 1-1/8" Jaw Length. 5" OAL.
No. 826PL064 (CN25-5G)..... **$18.25**

Xcelite Midget & Multi-Purpose Pliers

Midget Diagonal Cutter

Fast, clean, easy tip cutting of fine wires in close quarters. Tapered nose. 4" OAL.
No. 272PL074 (64-CG) .. **$22.95**

Long Chain Nose w/Cutter

For reaching into confined working spaces. Serrated jaws. 5-1/2" OAL.
No. 272PL120 (SN55) **$16.30**

Chain-Nose Pliers

Electrician's pliers with long reach and high leverage. 8" OAL.
No. 272PL068 (59-CG) .. **$23.80**

Long Chain Nose Pliers

Induction hardened, serrated jaws steel jaws are specially designed for gripping small wire & components without damaging. 2-1/8" Jaw. 6" OAL.
No. 826PL012 (1033-6C).. **$14.95**

Long-Nose Pliers

With side cutters. 6" OAL.
No. 272PL048 (51-CG) **$17.25**

Midget Diagonal Cutter

For close quarter work. 4" OAL.
No. 272PL054 (54-CG).... **$16.30**
For most cutting needs. 5" OAL.
A. No. 272PL060 (55-CG) **$16.65**
All-purpose diagonal cutter. 6" OAL.
No. 272PL084 (66-CG) **$17.85**

Diagonal Cutter

Fed. Spec. GGG-P-00-468, Type I, Class 1. Useful for switch-board, telephone, ignition, electronic and electrical work. Return Spring. Standard jaws. 13/16" Jaw. 6" OAL.
No. 826PL098 (942-6CS) .. **$16.45**

Semi-Flush Diagonal Cutter

Semi-flush lead cutter with tapered nose. 6" OAL.
No. 294PL218 (933-6SCK) .. **$14.55**

Curved Needle Nose Pliers

Thin bent nose pliers with tempered jaws for working in confined corners. 6" OAL.
No. 272PL888 (888-6SC) .. **$17.55**

Needle-Nose Pliers

Fine serrated jaws and coil spring for firm gripping and looping of wire. 5-11/16" OAL.
No. 272PL064 (57-CG)..... **$18.10**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Xcelite Cutters

Tapered Head Diagonal Cutter
Diagonal flush cutter with a tapered head for cutting lead components. 5" OAL.
No. 272PL136 (S475JS)..... **$15.40**

Semi-Flush Diagonal Cutter
Slim, tapered-oval head. Cuts 20 AWG steel, 22 AWG soft copper wire. 4" OAL.
No. 294PL144 (MS54) **$12.65**

Oval Flush Diagonal Cutter
With flush, ground-cutting edges. Copaloy Joint. 4" OAL.
No. 294PL158 (MS54J) .. **$15.65**

Thin Flush Diagonal Cutter
Ground down on back side for reaching into confined spaces. Relieved head. 4" OAL
No. 294PL150 (MS54-3J) **$15.80**

Slim Diagonal Cutter
Tapered head version, semi-flush cut for 22 AWG soft copper wire. 4" OAL.
No. 272PL100 (MS545) .. **$13.95**

Midget Angled Flush Cutter
Electronically-hardened edges, polished head. Deep throated to enable longer pieces of wire to be cut. Edges are flush and are recommended for snap-cutting 22 to 25 AWG. soft copper wire. Cutter is angled at 29° for cutting ease in difficult areas. 4" OAL.
No. 791PL754 (GA54J) **$25.00**

Diagonal Flush Cutter
Tapered head cuts to the extreme tip (25 AWG soft copper wire).4" OAL.
No. 294PL154 (MS54-5J) **$13.45**

Tapered Diagonal Cutter
With flush ground edges, tapered point and narrow tips. Copaloy Joints. 4" OAL.
No. 294PL160(MS54-9J) .. **$13.95**

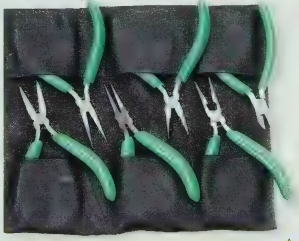
Semi-Flush Diagonal Cutter
Semi-flush lead cutter with tapered nose. **4-1/2" OAL** w/spring.
No. 294PL204 (S54-KS) **$19.45**

Standard Diagonal Cutter
Small, round nose, diagonal, semi-flush cutting pliers with electronically-hardened edges. Primarily for general-purpose cutting in the electronics industry. Standard with polished head. 5" OAL.
No. 272PL018 (S55S) **$18.00**

Flush-Cut Diagonal Cutter
Flush-cut edges, thin pointed nose for general cutting of electronic component leads. Cuts soft copper wire from 25 to 22 gauge; 20 AWG Steel wire. Return Spring. 2-5/8" Relieved head.
No. 294PL206 (S141-5JS) 5" OAL **$16.45**

Short Nose Tip Cutting Plier
Thin, oblique-head needlenose; flush cutter at tip. Snap cuts fine wires. For PC & work in tight quarters. Cuts 30° at extreme tip up to 22 AWG. 4-1/2" OAL.
No. 294PL110 (LC665J)..... **$27.40**

Relieved Head Diagonal Cutter
Tapered nose flush diagonal cutters with back clearance for use in confined areas. Hand-honed flush edges. Heavy pattern joint for long life. Ideal for printed circuit and other electronic applications. Cuts 22 AWG & smaller soft copper wire. 4" OAL.
No. 272PL041 (S424JS)..... **$20.75**



Xcelite Electronics Pliers Kit - 6 pc
A compact kit, designed for the sophisticated electronics technician, consisting of the six most popular Copaloy electronic pliers in a durable pocket-pouch. Includes: 4-1/2" transverse end cutting pliers; 4" diagonal cutting pliers; 5" long nose pliers with side cutter; 5" fine tip needlenose pliers; 5" flat nose pliers; 5" long nose pliers. **(USA)**
No. 272PL110 ..... **$108.55**

Erem "N" Series Cutters

Your Swiss precision cutters with ESD handles and double internal loop spring are manufactured using a multiple-extrusion process that super-compacts the Eremadium© steel and implants extra strength (63R© to 65R©) to ensure longer wear of your tool. All parts are machined to a tolerance of ±0.01 mm for identical forming, resulting in total uniformity and consistency. Can be re-sharpened.

Diagonal Cutter, Semi-Flush, Medium Oval Head, 5" oal.
A. No. 272PL512 ..... **$44.50**

Diagonal Cutter, Semi-Flush, Small Oval Head, 4" OAL.
B. No. 272PL612 ..... **$42.40**

Diagonal Cutter, Full-Flush, Medium Oval Head, 5" OAL.
C. No. 272PL522 ..... **$49.90**

Diagonal Cutter, Full-Flush, Medium Oval Head, 4" OAL.
D. No. 272PL623 ..... **$42.20**

Tapered Head, Full Flush Cut, 4-3/8" OAL.
E. No. 272PL622..... **$46.10**

Tapered Relieved Head, Full Flush Cut, 4-3/8" OAL.
F. No. 272PL624 ..... **$46.25**

Pliers listed below not shown

Diagonal Cutter, Super Full-Flush, Small Oval Head, 4" OAL.
No. 272PL632..... **$44.10**

Diagonal Cutter, Super Full-Flush, Medium Oval Head, 5" OAL.
No. 272PL532..... **$48.85**

EREM

Xcelite Pliers & Cutters

Xcelite

A

Diagonal cutter, Flush cut, revealed throat, 5-1/2" OAL.
A. No. 791PL012 .. **$20.70**

B

Angled flush cutting plier. 5-1/2" OAL.
B. No. 791PL014 .. **$28.30**

C

Long nose plier. scored jaws, 6-1/2" OAL.
C. No. 791PL018 .. **$21.00**

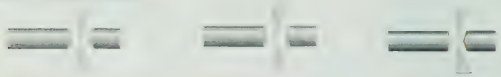
D

Diagonal cutter. 5-1/2" OAL.
D. No. 791PL010..... **$18.90**

Lindstrom RX-Series Ergonomic Cutters & Pliers

Lindstrom Ergonomic cutters and pliers feature: Precision Induction Hardening 63-65 HRC; Rounded shape for easy rotation; ESD-Safe Handles; Adjustable and Replaceable BiospringTM; CNC Machining; Precision Screw Joint; Lead-Catchers

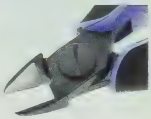
CUTTING EDGE



Micro-Bevel® **Flush-Cut** **Ultra Flush®**

RX Cutters Oval Head

TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL430	XS	Micro-Bevel	32-18 GA.	$53.50
844PL131	XS	Flush	38-18 GA.	$60.85
844PL813	XS	Ultra Flush	38-20 GA.	$67.45
844PL140	S	Micro-Bevel	32-16 GA.	$51.15
844PL141	S	Flush	38-16 GA.	$57.35
844PL042	S	Ultra Flush	38-18 GA.	$64.35
844PL150	M	Micro-Bevel	28-14 GA.	$53.50
844PL815	M	Flush	32-14 GA.	$60.85
844PL153	M	Ultra Flush	32-16 GA.	$67.80



RX Cutters Oval Head & Lead Catcher

TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL301	XS	Micro-Bevel	32-18 GA.	$61.25
844PL302	S	Micro-Bevel	38-18 GA.	$58.90
844PL303	M	Micro-Bevel	28-14 GA.	$61.60

RX Pliers Chain Nose

TT No.	Head Size	Jaw	Price (ea)
844PL890	M	Smooth	$49.60
844PL891	M	Serrated	$50.00

RX Cutters Tapered & Relieved Head

TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL461	S	Micro-Bevel	32-18 GA.	$56.60
844PL522	S	Flush	38-18 GA.	$63.95
844PL148	S	Ultra Flush	38-20 GA.	$69.00

RX Cutter Oblique Head

TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL246	S	45° Flush	32-18 GA.	$102.30
844PL248	S	45° Flush	32-20 GA.	$97.65

RX Pliers Round Nose

TT No.	Head Size	Jaw	Price (ea)
844PL759	S	Fine	$55.40

RX Cutters Tapered Head

TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL431	S	Micro-Bevel	32-16 GA.	$55.00
844PL440	S	Flush	38-16 GA.	$62.80
844PL458	S	Ultra Flush	38-18 GA.	$59.70

RX Pliers 60° Bent Tip Snipe Nose

TT No.	Head Size	Jaw	Price (ea)
844PL892	M	Smooth	$58.50

RX Pliers Short Snipe Nose

TT No.	Head Size	Jaw	Price (ea)
844PL893	S	Smooth	$54.65

RX Pliers Flat Nose

TT No.	Head Size	Jaw	Price (ea)
844PL491	S	Smooth	$50.40

RX Cutters Tip Cutter

TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL149	S	Micro-Bevel	38-22 GA.	$112.40

Replacement Spring

844AC800 ..... $2.25

Lindstrom 80-Series Cutters & Pliers

These precision-crafted pliers and cutters feature: Precision Induction Hardening 63-65 HRC; 1% Carbon/Chrome Ball Bearing Steel; Replaceable Springs; CNC Machining; Precision Screw Joint. 4-3/4' OAL.

Tapered & Relieved Head Cutter

TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL146	S	Micro-Bevel	32-18 GA.	$49.25
844PL147	S	Flush	38-16 GA.	$56.60
844PL418	S	Ultra Flush	32-16 GA.	$61.60
844PL156	M	Micro-Bevel	28-14 GA.	$58.15
844PL157	M	Flush	32-14 GA.	$62.80
844PL158	M	Ultra Flush	32-16 GA.	$72.85

Tapered Head Cutters

TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL143	S	Micro-Bevel	32-16 GA.	$47.70
844PL030	S	Flush	38-16 GA.	$48.85
844PL145	S	Ultra Flush	38-18 GA.	$57.75
844PL8153	M	Micro-Bevel	28-14 GA.	$53.90
844PL154	M	Flush	32-14 GA.	$55.50
844PL155	M	Ultra Flush	32-16 GA.	$67.85
844PL163	L	Micro-Bevel	26-12 GA.	$57.35
844PL164	L	Flush	32-12 GA.	$68.20
844PL165	L	Ultra Flush	32-14 GA.	$80.25

Oval Head Cutters

TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL130	XS	Micro-Bevel	32-18 GA.	$46.15
844PL8131	XS	Flush	38-18 GA.	$53.50
844PL321	XS	Ultra Flush	38-20 GA.	$55.00
844PL072	S	Micro-Bevel	32-16 GA.	$43.80
844PL078	S	Flush	38-16 GA.	$45.35
844PL142	S	Ultra Flush	38-18 GA.	$51.95
844PL086	M	Micro-Bevel	28-14 GA.	$46.15
844PL151	M	Flush	32-14 GA.	$53.50
844PL152	M	Ultra Flush	32-16 GA.	$60.45
844PL090	L	Micro-Bevel	26-12 GA.	$48.00
844PL161	L	Flush	30-12 GA.	$60.45
844PL162	L	Ultra Flush	30-14 GA.	$70.55

Oblique Head Cutters

TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL247	S	45° Flush	32-18 GA.	$85.65
844PL248	S	45° Flush	32-20 GA.	$97.65

Angle Head Cutter

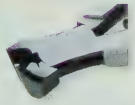
TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL211	S	20° Flush	34-16 GA.	$89.90

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Lindstrom Supreme Series Pliers & Cutters

Angle End Cutters - 11°

TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL290	S	Micro-Bevel	32-18 GA.	$58..90
844PL108	S	Flush	32-18 GA.	$54.25
844PL293	S	Flush	32-18 GA.	$58.90



Round Nose Pliers

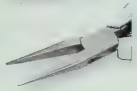
TT No.	Head Size	Cut	Price (ea)
844PL114	S	Very Fine	$43.00

Short Chain Nose Pliers

TT No.	Jaw	Price (ea)
844PL070	Smooth	$47.30

Snipe Nose Pliers

TT No.	Head Size	Jaw	Price (ea)
844PL116	M	Smooth	$42.25
844PL891	M	Serrated	$50.00

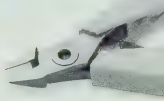


Lindstrom Supreme Series Cutters & Pliers

The Lindstrom Supreme Series is designed for general electronics work and fine mechanical repair. Most have a specially made box joint with precision alignment jaws.

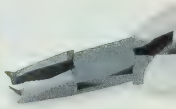
Tapered Head Micro-Bevel Cutter

TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL190	S	Micro-Bevel	36-16 GA.	$50.00



Reverse Angle Flush Cutter

TT No.	Head Size	Cut	Cutting Capacity (AWG)	Price (ea)
844PL280	S	Flush	32-20 GA.	$83.70



Erem Pliers and Cutters

Erem® I-Series Miniature Pliers and Cutters

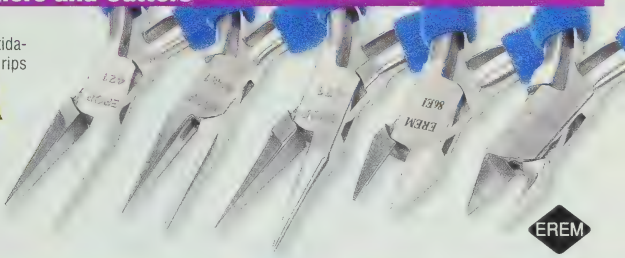
These pliers and cutters are designed with forged stainless steel inhibits oxidation, and precision box joint for perfect jaw alignment. Has ESD safe foam grips and dual leaf springs to give you smooth, fast action. (Pakistan)

Pliers

No. 272PL862 Flat Nose 4-3/4" **$33.20**
No. 272PL861 Chain Nose 4-1/2" **$28.46**
No. 272PL864 Needle Nose, Smooth Jaws 4-1/2" **$33.20**

Cutter

No. 272PL860 Tapered, Full Flush 5-1/4" **$28.46**
No. 272PL863 Diagonal, Tapered, Full Flush 4-1/2" **$33.20**



CHP Cutters by Hakko

Micro-Cutter

Design for cutting leads located in difficult areas. Max. cut 0.64 mm copperwire. 4-7/16" OAL.
No. 821PL201 (TR-20-50-M) **$10.70**

Clean Cutter

An angled, frontal design allows for cutting leads located in tight areas. Max. cut 0.6 mm copper wire. 4-1/2" OAL.
No. 821PL202 (TR-20-VM) .. **$14.50**

Micro Clean Cutter

This light, handy and economical cutter is designed for electronics. Max. cut 1.0 mm copper wire. 4-3/4" OAL.
No. 821PL170 (CHP-170)..... **$5.90**

Micro-Cutter

Designed for very delicate clean-cut work. Max. cut 0.81mm copper wire. 4-1/2" OAL.
No. 821PL200 (TR-20-M).... **$10.70**

TECHNI-TOOL® Specialty Plier & Cutter Sets

Fine Electronics Kit - 5 pc

Contains: long nose plier, oblique cutter, end cutter, oval head diagonal, tapered head diagonal plier, all in a roll-up pouch. **(USA)**
No. 758PL010 ..... **$115.00**

Plier Kit - 5 pc

A kit of the five most popular Techni-Tool® pliers. Designed for electronics use, with return springs and the famous Techni-Tool quality. **Kit Contains**: 5" diagonal oval head cutter, long chain nose with cutter, midget chain nose, 4" diagonal flush cut, 4" round nose and roll-up pouch. **(USA)**
No. 758PL016..... **$69.00**

Erem Ergonomic Pneumatic Cutters

EREM

Small precision air cutters. For cutting conventional components as well as small ductile or plastic parts. Cutters supplied with tubing. Heads are not included. 5-1/4" (130mm) OAL.

Power unit
A. No. 791PL1500 .. $259.10

Heads
Diagonal Cutters
B. No. 791PL1512 .. $139.10

Tip Cutters
C. No. 791PL1503 .. $129.50

Diagonal Cutters
D. No. 791PL1576 .. $127.10

Diagonal Cutting Head
Thickness of the tip measures 1mm.
E. No. 272PL603 .... $179.90

Erem Speciality Pliers

Compound Cutter
New effortless compound-action cutter. 3.5 times less pressure needed. Very high cutting capacity. Molybdenum, tantalum, tungsten or stainless steel up to dia. .040 (will also cut soft wires up to 2mm- .078).4-3/4" (120mm) OAL.
No. 791PL147 ..... $159.90

Diagonal Cutters
For copper wires. Fine, relieved head.
4-1/4" (110mm) OAL.
No. 791PL592 .... $52.40

500 Series - Angle Tip Cutters
40° angle head for easier accessibility.
4-1/2" (115mm) OAL.
No. 791PL572 ..... $67.00

45° angle head for working on PCB's, cutting component leads. DIL. etc. The blades operate at 90° and 180°. 4-1/2" (115mm) OAL.
No. 791PL582 .. $59.40

PCB Cutters/ Shear Cutters
Transverse anti-shock PCB cutter, cuts lead to predetermined length. Standard cut off at .04". 4-3/4" (120mm) OAL.
No. 791PL530.... $74.00

Oblique (45°) end, narrow nose PCB shear-cutter. Standard cut off at .040". 4-1/2" (115mm) OAL.
No. 791PL549 ..... $89.90

Diagonal Cutter Tungsten Carbide
Tungsten Carbide side cutter for small stainless steel wires. High-precision cutting tips, finished under microscope. Cuts axially round or flat coiled wires.4-3/4" OAL.
No. 791PL577 .... $175.10

Kevlar® Cutters Semi-flush Diagonal Cutter
Used for cutting Kevlar® silks only. (not fiber optic).
4-1/4" OAL. **(USA)**
No. 791SC599..... $89.95

Tip Cutter
<45° Angled, full-flush miniature tip cutter for delicate work, such as hybrid circuits, micro modules.
(A=.591"/C=.157")
4-1/4" (110mm) OAL.
No. 791PL575 .. $66.00

Tip Cutter - Full Flush
<30° Narrow tip, full-flush angled head, oblique nipper.
(A=.472"/C=.394")
4-1/4" (110mm) OAL.
No. 791PL015.... $89.40

Tip Cutter
IC Maintenance Tool. Angled tip, full-flush cutter cuts DIP leads from the rear and cuts pins on dense PCB's.
(A=.787"/C=.157"/F standard = .059") 4-1/4" OAL.
No. 791PL593 .... $72.80

Tip Cutter
Full-flush, vertical tip cutter for fine wires. (A=.86/C=.157)
Max, Cu .24" (0.6mm)
4-3/4"(120mm) OAL.
No. 791PL570... $66.70

700 Series "Micro" Diagonal Cutters
Small tapered-relieved head, super-full-flush cutter.
4-1/4" (110mm) OAL.
No. 791PL776 .... $54.10

Diagonal Cutter
Precision tip-cutter for cutting leads to SMD Micro-Packages up to 0.25mm, including fine pitch components. 4-1/4" (110mm) OAL.
No. 791PL607.... $79.95

Lead Cutter
Cut lead tips flat. Trim an entire row of 8 pins to the same length. 4-3/4" (120mm) OAL.
No. 791PL509.. $119.50

Bending Plier
Pliers with replaceable nylon insert to prevent nicking. Perfect for straightening precious metal, leads, etc. 5" (125mm) OAL.
No. 791PL531 .. $71.40

Extracting Plier
IC adjustable jaws extracting plier. Designed to keep pins in middle holes. Use when desoldering from PCB. Use for .300 IC.
No. 791PL505 .... $114.20

Erem - 2200 Ergo Series

The redesigned ergonomic cutter offers you less fatigue with the gripping pressure distributed on comfortable foam grips over the full hand and palm area. Also features a self-positioning adjustment of finger and thumb grips. ESD safe.

Universal side cutter semi flush cut. 4-1/2" OAL.
A. No. 272PL212 ..... $45.70

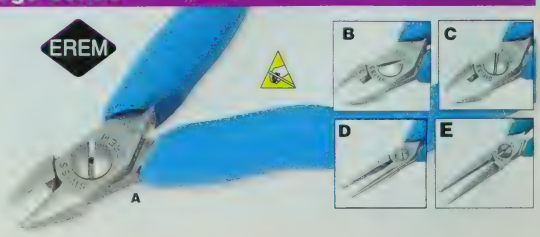
Full flush cut cutter. 4-1/2" OAL.
B. No. 272PL222 ..... $45.70

Super full flush cut cutter. 4-1/2" OAL.
C. No. 272PL232 ..... $49.90

Very fine needle nose plier for micro electronics. 6-1/2" OAL.
D. No. 272PL221 ..... $45.70

Pliers, flat nose for universal bending, forming and assembly, smooth jaw.
E. No. 272PL224 ..... $39.30

EREM



TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Xuron Flush Cutters

9000 Series Micro-Shear® Flush Cutters

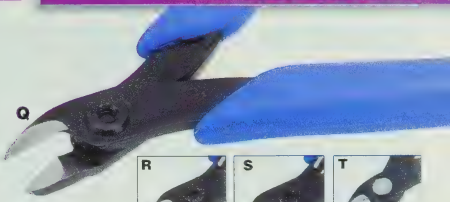
Tough alloyed steel, state-of-the-art heat treating and ultra-precise CNC grinding give you the ultimate shear. Light Touch™ return spring. Cuts soft wire up to 14 AWG (1.6mm). **(USA)**

Q. 9100 Oval-Head Micro-Shear® Flush Cutter No. 892PL9100 ..... **$14.55**

R. 9200 Tapered-Head Micro-Shear® Flush Cutter No. 892PL200 ..... **$14.55**

S. 9200F Micro-Shear® Flush Cutter with Lead Retainer No. 892SC200 .... **$15.35**

T. Flush Cutter
Flush cuts soft wire up to 14 (1.6mm) AWG. 6" OAL.
No. 892PL217 ..... **$9.80**



Klein® Midget Pliers & Cutters

- **Lifetime Warranty**
- **Cushioned Grip Handles**
- **Coil Spring for Fast Opening**

Midget High Hardness Semi-Flush Cutter

For cutting nickel ribbon wire. Tapered nose, standard beveled-cut cutter. Hardness C60. Nose 1/16" at tip. 4-3/16" OAL.
No. 490PL094 ..... **$22.50**

Midget Semi-Flush Cutter

General purpose cutter with short, strong tapered nose. 4-3/16" OAL.
No. 490PL112 .... **$21.20**

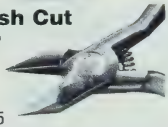
Midget Flush Cut, Extra Narrow Jaw Cutter

Fine, narrow-jaw taper allows for especially delicate work. 4-3/16" OAL.
No. 490PL114 ..... **$23.50**

Full Flush Narrow Jaw Cutter

Reaches into confined areas. 5" OAL.
No. 490PL102 ..... **$22.90**

Midget Jaw Flush Cut Diagonal Cutter



Full-flush cutting for working in very close quarters. 4-3/16" OAL.
No. 490PL120 ..... **$22.75**

Midget Slim Nose Pliers

Knurled jaws. Designed for precision subminiature work. 4-3/4" OAL.
No. 490PL160 .. **$16.60**
Smooth inside jaws and radiused jaw edges prevent nicked wire. 4-3/4" OAL.
No. 490PL162 .... **$17.60**

Midget Pointed-Nose Diagonal Cutters

Semi-flush cutting knives specifically designed for tip cutting, and trimming printed circuits. Sharp nose for working in confined areas.
No. 490PL058 ..... **$22.75**

Midget Flat Nose Pliers

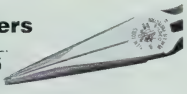
Jaw width tapers down to narrow flat tip. Polished inside jaws. 4-3/4" OAL.
No. 490PL164 **$18.00**

Klein® Standard Pliers & Cutters

Long Needle Nose Pliers

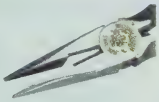
Smooth jaws and edges radiused. 5-13/32" OAL.
No. 490PL170 ..... **$22.55**

Long Nose Pliers



Knurled jaw. 5-9/16" OAL.
No. 490PL122 .... **$16.95**
Knurled jaw. 6-5/8" OAL.
No. 490PL124 ..... **$16.75**

Long-Nose with Side Cutters



Standard long-nose design with cutting knives at hinge. Permits wrapping, looping, and cutting with a single pair of pliers. **(USA)**
No. 490PL038 5-9/16" OAL **$19.35**
No. 490PL203 6-5/8" OAL..... **$18.70**

Diagonal Cutters with Skinning Hole

Tapered nose and standard-bevel cutting knives. With "W" stripping notches and .052" skinning hole. 6" OAL. **(USA)**
No. 490PL110 ..... **$21.50**

Extra-Slim Needle Nose Pliers

Long, narrow nose and slim hinge for efficient use in extremely close quarters. Finely knurled jaws grip thin wire without damaging it. 5-1/2" OAL.
No. 490PL172 ..... **$21.80**

Curved Needle Nose Pliers

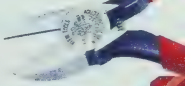
60° bend. Inside jaws are polished and edges radiused. 5-1/2" OAL.
No. 490PL174 .. **$24.10**

Curved Long Nose Pliers

Nose curved to approx. 70° angle. Knurled jaws. 6-1/4" OAL.
No. 490PL128 .. **$21.85**

Diagonal Cutters

Standard Tapered Nose Cutter
Standard Bevel Cutting. 5-1/2" OAL.
No. 490PL032 .... **$20.75**



Standard Cutter
Semi-Flush Cutting. 5-1/2" OAL.
No. 490PL060..... **$20.90**

Heavy-Duty Tapered Head Cutter
Heavier for all-purpose use. 6" OAL.
No. 490PL108 ..... **$18.50**

Klein® Pliers & Cutters

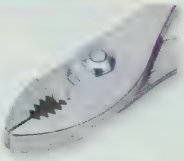
Klein Pliers Kit - 4 pc

Kit includes four midget pliers that fit into your pocket. **Contains:** 490PL112 diagonal cutting plier, 490PL160 slim long nose plier, 490PL164 flat nose plier, 490PL086 transverse head semi-flush. Black vinyl case. Size Closed: 6-3/4"L x 5"W x 1-1/4"D. **USA**
No. 490PL014..... **$77.35**

Prices in this catalog are effective January 1, 2001. While we attempt to hold prices, we cannot control when our vendors increase prices. *All prices are subject to change without notice.* We reserve the right to correct misprints.

Crescent Combination Pliers

Combination Pliers

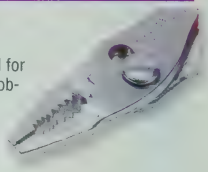


Drop-forged steel, hardened and tempered; plated finish. Milled teeth for gripping; jaws have wire cutter. Cap. 1".
(USA)
No. 272PL140 6-1/2" OAL **$6.45**
No. 272PL142 8" OAL **$7.85**

Motor Kit Plier

Forged from carbon steel and hardened and tempered with machined gripping teeth and wire cutter. Features red, non-slip, cushion-handle grips. 6-1/2" OAL.
(USA)
No. 272PL260 (G26C) **$10.65**

Thin Straight Nose Pliers



An especially good tool for reaching and gripping objects hard to get at with ordinary pliers. Cushion-grip handles. 1" capacity. 6" OAL.
(USA)
No. 294PL170 ..... **$12.30**

VISE-GRIP Locking Pliers

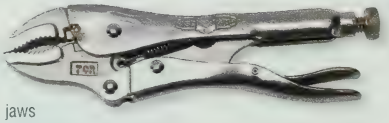
Curved Jaw Locking Pliers w/ Wire Cutter

Knurled tips provide a better fit for round stock. Built-in wire cutter bites through small wires and up to 1/4" bolts.
No. 644WR014 10" OAL, 1-7/8" jaw adj., 7/16" jaw thickness **$17.75**
No. 644WR030 7" OAL, 1-5/8" jaw adj., 5/16" jaw thickness **$14.65**
No. 644WR020 5" OAL, 1-1/4" jaw adj., 1/4" jaw thickness **$15.15**
No. 644WR040 4" OAL, 15/16" jaw adj., 7/32" jaw thickness **$13.90**

Straight Jaw Locking Pliers

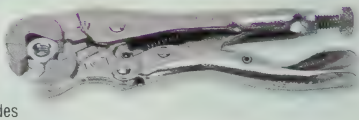
Traditional straight jaw design allows for maximum contact on flat, square or hex shaped work.
No. 644WR012 10" OAL, 1-5/8" jaw adj.,1-5/8" jaw thickness **$16.70**
No. 644WR028 7" OAL, 1-1/8" jaw adj. 1/2" jaw thickness **$15.50**

Curved Jaw Locking Pliers



Curved jaw design continues to the back of the jaws to grab smaller round stock. Guarded release trigger prevents accidental release and pinching.
No. 644WR010 10" OAL, 1-7/8" jaw adj., 7/16" jaw thickness **$17.25**
No. 644WR026 7" OAL, 1-5/8" jaw adj., 5/16" jaw thickness **$14.25**

Locking Wrench



These heavy-duty jaw locking wrenches are designed to lock on three sides of a hex fastener, and adjusts to over 16 wrench sizes. Includes built-in wire cutter, adjusting screw and guarded release trigger.
No. 644PL040 (1/4" to 9/16") **$15.90**
No. 644PL080 (7/16" to 3/4") **$18.10**

Bent Nose Locking Pliers

Bent jaw is at 35° angle for off-angle access to tight places. Locks to provide additional leverage and support.
6" OAL. 2-1/4" jaw adj., 5/32" jaw thickness.
No. 644PL008 ..... **$18.30**

Long Nose Locking Pliers w/ Wire Cutter

Long, straight nose allows for use in narrow spaces. Ideal for bending wire shapes or pulling cotter pins. Includes built-in wire cutter.
6" OAL, 2-1/4" jaw adj., 5/32" jaw thickness
No. 644WR022 ..... **$17.65**
9" OAL, 2-7/8" jaw adj., 3/16" jaw thickness
No. 644PL014 ..... **$20.95**
4" OAL, 1-5/8" jaw adj., 1/8" jaw thickness
No. 644WR021 ..... **$16.15**

Adjustable Wrench

Sure Drive Adjustable Wrench

Eliminate "rounding off" of bolts and nuts with the Sure Drive adjustable wrench. The jaw profile grips bolt heads and nuts at the flanks, not at the corners. This Chrome-Vanadium steel, matt chrome plated wrench has a specially designed jaw for less total width at maximum jaw opening, and ease of access in confined spaces. The Double T-shaft strength where necessary, light where possible. Ergonomic Soft Grip anti-slip handle has a calibrated jaw for loosening and tightening of fasteners. Metric 4-18mm; SAE: 1/4 - 5/8. (Germany)
No. 217SC4365 6" OAL. **$20.75**
No. 217SC365 8" OAL..... **$24.80**

Adjustable Wrenches

Finish: Precision-hardened and anti-corrosion treated. With comfortable thermoplastic handle and larger grip width. The sixth generation of the adjustable wrench. Series RPC: combination of pipe grip facility, one side serrated. Right-handed, measurement scale in inches. Chrome-plated.
844SC073 features a reversible jaw!

TT No.	OAL	Max Opening	PRICE each
844SC070	6"	3/4"	$18.70
844SC071	8"	1-1/16"	$20.35
844SC072	10"	1-3/16"	$27.65
844SC073	10"	1-1/4"	$31.25

Drop forged and heat treated for toughness and durability. Chrome plated for durability. **(USA)**

Red Cushion Grip			
TT No.	Size	Cap.	PRICE
272WR028	4"	1/2"	$16.95
272WR032	6"	3/4"	$17.65
272WR036	8"	15/16"	$18.95
272WR018	10"	1-1/8"	$22.95
272WR022	12"	1-5/16"	$30.90

Chrome Finish Handles			
TT No.	Size	Cap.	PRICE
272WR026	4"	1/2"	$16.95
272WR030	6"	3/4"	$16.95
272WR034	8"	15/16"	$16.95
272WR016	10"	1-1/8"	$21.95
272WR020	12"	1-5/16"	$29.70

Crescent Pliers & Cutters

Heavy-Duty Diagonal Cutter

Designed for cutting heavy wire with ease. Electronically-hardened edges. Handle design affords comfortable grip. **(USA)**

No. 272PL056 7" OAL..... **$18.55**

No. 272PL058 8" OAL **$21.15**

Heavy-Duty Diagonal Cutting Pliers

Easy-to-use, powerful, diagonal-cutting pliers, insure easy cutting of heavy wire. Electronically-hardened edges; will cut BX armored cable. 7" OAL. **(USA)**

No. 272PL102 ..... **$21.95**

Lineman's High Leverage Pliers

Streamlined head slides easily in and out of tool belt. Cutters are hand-honed so they cut clean and stay sharp. 9-1/4" OAL. **(USA)**

No. 272PL032..... **$25.90**

Long Chain Nose w/Side Cutter

Drop forged. Electronically-induction-hardened cutting edges. Serrated jaws. 6-5/8" OAL. **(USA)**

No. 272PL076 6-5/8" OAL **$18.80**

No. 294PL242 6-5/8" OAL w/spring **$19.20**

No. 272PL082 7-1/2" OAL w/spring **$22.45**

Benner-Nawman Cable Cutters

Cable Clean Cutter

Cut 50 pair telco cable, 2/0 aluminum cable and #2 copper cable without compressed or frayed ends. 8" OAL. **(USA)**

No. 188TE012 ..... **$27.40**

Banana Cable Cutter

For cutting CATV coax cable up to 0.75". Heat-treated high carbon steel shearing edges. 3/8" Case-hardened steel pivot bolt with jam nut to prevent slippage. 8-1/4" OAL. **(USA)**

No. 188TE014..... **$31.60**

The Shark™ Clean Cutter

The best cutter for cutting multi-stranded aluminum and copper cable. It easily cuts 50 pair clean, and eliminates frayed ends. Not for steel cable. **(USA)**

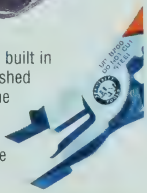
No. 188PL240..... **$27.40**

Coaxial Cable Cutter

Use for cutting CATV Coaxial Cable. You simply score the cable until you reach the inner conductor, then snap it off. 8" OAL. **(USA)**

No. 188PL095 (UP-B95) **$37.60**

Aussie Linesman Pliers *New!*



This tool is two tools in one with a crossover cutter and a built in crimper. These pliers are made of drop forged hand-finished tool steel, with a special non-slip plastic covering on the handles. **Specs:** cutting capacity: copper cable 2/0, 50 pair telco cable, #6 bare copper wire or THNN strand wire, 1-2/3" wire with ground; Crimping Capacity: 22-10 Gauge wire range terminals. 8-1/2" OAL. ***Lifetime Guarantee.***

No. 188PL200 ..... **$26.35**

Klein Cable Cutters

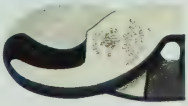
Cut Thick Copper Cable With One Hand!

Ratcheting Cable Cutter

Quick. Effortless. Unique-ratchet-action holds cable tight between movable and fixed blades for straight cuts on copper up to 400 MCM – aluminum and multi-conductor cables to 600 MCM. Non-slip grip. (Not for steel or ACSR).

No. 490ST306 ..... **$199.00**

High-Leverage Cable Cutter and Clipper



Cable-gripping, shear-type jaws cut up to: 4/0 aluminum to 2/0 soft copper; 100 pair, 24 AWG communication cable. *Not designed for cutting steel or ACSR.* 9-1/2" OAL.

No. 490PL018 ..... **$25.90**

CK Cable Cutters

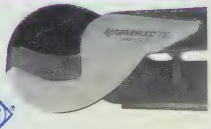
Aircraft Cable and Wire Rope Cutter

Drop-forged head provides angular blades for a clean cut. PVC-coated handles. Cuts mild-steel stranded wire to .236"; high-tensile-steel stranded wire to .157"; spring-steel solid wire to .079" and mild-steel solid wire to .157". 7-1/2" OAL. (Germany)

No. 217PL744 ..... **$35.50**

Heavy-Duty Cable Cutters

Greenlee® Cable Cutters



This heavy-duty heat treated cable cutter cuts up to 2/0 copper and aluminum. 9-1/4" OAL. **(USA)**

No. 414SA060 ..... **$24.00**

Jaws cut up to 350 MCM copper or aluminum cable. Steel handles with rubber grips for leverage and comfort. Lightweight and economical. 18" OAL. 3.8 lbs.

No. 414SA062* **$58.00**

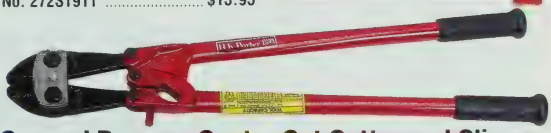
NOTE: Not designed for steel, ACSR or live circuits.

H.K.Porter

Center Cut Jaws Piano Wire Cutter

Cut wire, cable and light chain to 1/16" (2mm); medium hardness to 5/32"(4mm). Cut up to 15,000 (tensile) hard wire. Wt. 9-1/2 oz., 8-1/2" OAL.

No. 272ST911 ..... **$13.95**



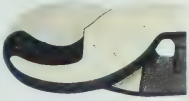
General Purpose Center Cut Cutter and Clipper

General plant and maintenance tool. **Features:** drop forged, precision ground-alloy-tool steel jaws with center-cut blades. Cuts soft, medium or hard materials. Maximum hardness of material to be cut: Brinell 400, Rockwell C42. Special lock-plate prevents jaw bolts form loosening. Steel handles with rubber grips. (610mm) Soft and medium - 7/16" C31 Rockwell (11mm) Hard - 5/16" C42 Rockwell (8mm). 24" OAL. ***Replacement cutter heads available.***

No. 272ST190..... **$94.90**

Crescent

Electric Cable Cutter



Your compact, electric cable cutter has high-leverage jaws with shear-cut blades that cut up to 4/0 aluminum and 2/0 soft, copper cable. The uninsulated cutter does not cut steel or ACSR. Your cable cutter, with its plastic covered, non-slip grips, fits into most tool pouches. **(USA)**

No. 272PL890..... $22.75

Tool Organizer

Magnabars *New!*

Convenient magnetic bar holds tools. natural hardwood finish: 1" wide gripping track, mounting screws

No. 712MI054 18" OAL .. **$19.95**

No. 712MI056 18" OAL .. **$19.95**

TECHNI-TOOL
Fax: 1-800-854-8665

TEC-CUT Standard Pliers & Cutters

New!

Specially designed by Techni-Tool for added comfort and visibility, these pliers and cutters feature double-dipped foam grips. All the pliers and cutters are made from 1060-Carbon Steel and meet ANSI requirements. The pliers have a Rockwell hardness of 42-43 HR^c and the cutters are hand induction hardened with a 57-63 HR^c. All made in the USA.

Crimp Tool

Designed for crimping insulated and non-insulated terminal, and also are used on splices and wire joints in size #22-10 AWG. Includes wire cutter. 9" OAL. **(USA)**

No. 758PR213 ..... **$18.10**

N.E. Style Lineman's Pliers

Designed with smooth stream lined nose, and diamond-serrated jaw to provide increased gripping strength. Has a high leverage design provides greater gripping and cutting power. **Specs:** *ANSI Specs: B107.20M*, Body. 9" OAL. **(USA)**

No. 758PL214 ..... **$17.45**

N.E. Style Lineman's Pliers with Crimp Die

This Lineman's Plier has a built in Crimp Die for insulated and non-insulated terminals. A feature a smooth stream lined nose and electronically induction hardened cutting edge (60 to 62 HRc). **Specs:** *ANSI Specs: ANSI B107.20M.* 9" OAL. **(USA)**

New!

No. 758PL215 ..... **$22.85**

Diagonal Cutter with Skinning Hole

This tapered nose cutter is designed with a .052-skinning hole for 16 AWG wire. Features electronically induction hardened cutting edge (60 to 62 HRc). 6" OAL. **(USA)**

No. 758PL219 ..... **$13.00**

Cable Cutter

This shear type jaw cuts up to 4/0 aluminum and 2/0 soft cooper. Has a 1/2" jaw opening capacity and is designed for high leverage for increased cutting power. Features a high polish finish 9-1/2" OAL. **(USA)**

No. 758PL216..... **$16.75**

Heavy Duty Diagonal Cutter

This high leverage design provides increased cutter power. Designed hand honed cutting edges, and electronically induction hardened cutting edge (60 to 62 HRc). 8" OAL. **(USA)**

No. 758PL218 ..... **$14.90**

Tongue & Groove Joint Pliers

This 7-position machined tongue and groove pliers adjustment provides a wide range of jaw openings. Features undercut channels and reinforced ribs for extra gripping power and strength. 10" OAL. **(USA)**

4 Position Jaw Adjustment, 5" OAL

No. 758PL209 ..... **$8.95**

5 Position Jaw Adjustment, 7" OAL

No. 758PL210 ..... **$7.90**

6 Position Jaw Adjustment, 10" OAL

No. 758PL211 ..... **$9.60**

Slip Joint Pliers

This Slip Joint Plier features two-jaw position and shear type wire cutter. **(USA)**

No. 758PL206

5" OAL **$7.40**

No. 758PL207

6" OAL..... **$6.55**

No. 758PL208

8" OAL..... **$8.90**

TEC-CUT

Multi-Pliers Kit - 4 pcs

This 4 piece tool kit contains everything you need to get the job done. **Includes:** (1) 10" Groove Joint; (1) 6" Slip Joint; (1) 6" Diagonal Cutter with Skin Hole; (1) 6" Long Nose. **(USA)**

No. 758PL221 ..... **$49.20**

TEC-CUT Multi-Tool Kit

A. Multi-Tool Kit

5-piece Multi-Tool kit with ESD grips. Includes one each: 6-5/8" long chain nose w/ side cutter; 6" heavy duty tapered head cutter; 7" groove joint pliers; 6" slip joint pliers; 6" adjustable wrench. Includes a zipper black case. **(USA)**

No. 668PL9000..... **$59.95**

B. Groove Joint Pliers

Precision milled ribs assure smooth, positive interlock between two halves to eliminate jaw separation. 7"OAL. **(USA)**

No. 668PL007 ..... **$7.90**

C. Slip Joint Pliers

Drop forged steel induction. Hardened and machined for durability and wire cutting. 6" OAL. **(USA)**

No. 668PL006..... **$6.55**

A

B C D E F

D. Adjustable Wrench

Premium quality adjustable wrenches are made of exacting specifications. Precision crafted from high strength alloy. 6" OAL. **(USA)**

No. 668WR9006 ..... **$17.70**

E. Long Nose w/Side Cutter

Long nose with side cutter is used for cutting, bending, and looping wire. 6-5/8" OAL. **(USA)**

No. 668PL0016..... **$15.90**

F. Diagonal Side Cutter

Heavy-duty diagonal side cutter. Insulated hardened hand-honed edges. 6" OAL. **(USA)**

No. 668PL004 ..... **$14.25**

TEC-CUT Long-Reach Heavy-Duty Pliers

K

L M N

Tec-CuT Long-Reach provides greater access to confined, restricted areas. These pliers are hot-drop forged from the finest steels, carefully heat treated; hand sharpened with satin-finish, and meet or exceed ANSI and US government specs. 42R^c ± hardness. **(USA)**

K. Diagonal Cutter, Bent 15° Combo, 11" OAL.
No. 668PL034..... **$26.80**

L. Needle Nose Pliers, Straight. 11.7" OAL.
No. 668PL030..... **$23.60**

M. Needle Nose Pliers, Bent 45°. 11.7" OAL.
No. 668PL032..... **$23.90**

N. Long Nose Cutter/Crimper, with Radiused Spike Jaw, 9.1" OAL.
No. 668PL036..... **$25.20**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Plastic Pliers

Glass-Filled Nylon Pliers
Flat jaws for bending wire without damage.
5-3/4" OAL. **(USA)**
No. 420PL014 **$5.00**

Straight Chain Nose Tip Pliers
Nylon and glass fibers makes pliers lightweight and sturdy.
5-3/4" OAL. **(USA)**
No. 461PL620 .. **$11.25**

Curved Long Nose Tip Pliers
45° angle. Nylon fibers makes pliers lightweight and sturdy. 5-3/4" OAL.
(USA)
No. 461PL621 .. **$11.25**

Strain Relief Plier & Kit

For Nylon Strain Reliefs.

Strain Relief Assembly Plier
Adjustable hand pliers for all Heyco Strain Relief Bushings, except SR 3A-4 and SR 4A-6, that assemble into holes up to 7/8" (22.2mm) dia. **(USA)**
No. 434PL012 ..... **$47.25**

Heyco® Strain Relief Bushings Kit - 155 pc
This kit includes the 18 most popular sizes, ranging from .220" to .690", for SPT, SVT, HPN; Round and flat cable; and more. A convenient specification chart is in the lid; Kit totals 155 pc., including case. **(USA)**
No. 218AC199 ..... **$36.50**

Combination Pliers

Midget Utility Pliers
Midget Slip Joint w/narrow jaws for close quarter work. Three jaw opening to 1/2". 5" OAL.
(USA)
No. 272PL046 (50-CG) .. **$13.95**

Crescent® Dura-Plyers™
These laminated box-joint pliers feature cushioned, textured grips, a box-joint, a bias tooth design and a riveted "ply" construction providing you strength for your toughest jobs. **(USA)**
Xcelite
No. 272PL008 8" **$6.85**
No. 272PL010 10" **$7.70**

Groove Joint Pliers
The undercut feature of the Groove Joint Pliers means a stronger tool because steel grain is not cut, but forged. Coated cushion grip. **(USA)**
Crescent
No. 294PL068 Cap. 1/2" - 4" OAL **$11.90**
No. 272PL162 Cap. 1-1/8" - 7" OAL **$11.55**

Smart-Grip™ Pliers
Self-adjusting jaws grip to nine different positions automatically with the squeeze of your hand. Curved jaw design grips round or irregular objects up to 1-1/4". Handles lock in closed position. 9" OAL. **(USA)**
No. 462PL120 ..... **$30.85**

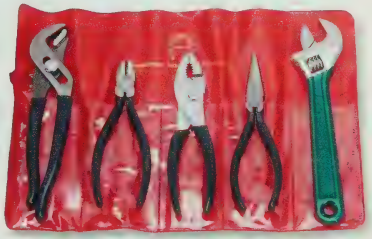
Diamond® Pump Pliers
Drop-forged chrome vanadium steel for the strongest loads. Self-gripping jaws designed for non-slip grip on round, hexagonal and square work pieces. Seven-position box joint and comfortable cushion grips. (Spain)
No. 272PL101 10" **$18.10**
No. 272PL103 12" **$25.25**

Crescent Soft Jaw Pliers

A-N Connector Pliers
With nylon inserts for protection of connectors. Has three jaw adjustment positions. Cap 3/4" to 2-1/2". **(USA)**
No. 826PL140 10" OAL .. **$19.55**
Replacement jaws
No. 826PL016 ..... **$3.75**

Soft Touch No Mar Pliers
Eight-position, spring-loaded, high-carbon steel, adjustable slip joint. Spare jaws available. Synthetic resin jaws. 1-1/2" (46 mm.) jaw opening. 10" (250 mm.) OAL. **(USA)**
Soft Jaw Inserts
No. 189WR250 ..... **$19.95**
Replacement Jaw
No. 189MI010 ..... **$4.95**

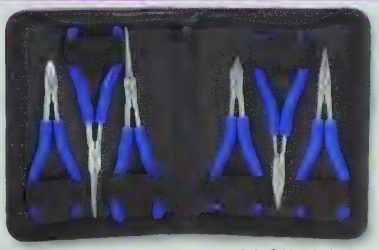
Soft Jaw Pliers
Made of heat-treated high carbon steel for long life; a four-position pivot allows the padded jaws full range capacity from 3/4" to 2-1/2". Cushioned grip. **(USA)**
No. 787PL815 ..... **$23.50**



Diamond® Pliers Kit - 5 pc
Includes: 6" long nose plier, 8" groove joint plier, 5" slip joint plier, 6" diagonal plier, 8" adjustable chrome wrench. Plastic coated handles. Case Included. **(USA)**
No. 294PL198 ..... **$64.10**

Fine Electronics Pliers & Cutters Kits

Long-Reach Electronics Pliers/Cutters Kit - 6 pc
These pliers are hot-drop forged from the finest steels, carefully heat treated, hand sharpened with satin-finish, spring leaf, and meet or exceed ANSI and GSA specs. 42 R^c +/-; cutter 57-60 R^c. **Kit Contains:** diagonal oval head cutter, 5.6" OAL; chain nose pliers with cutter, 6.2" OAL; needle nose pliers, 7.2" OAL; flat nose pliers, 6.2" OAL; diagonal cutter, 5.6" OAL; 45° needle nose plier bent, 6.9" OAL; plus handy carrying case. **(USA)**
No. 668PL038 ..... **$67.95**



General Purpose Plier/Cutter Kit - 5 pc
Contains: standard diagonal cutter, long chain nose plier, wire stripper, tapered diagonal cutter, flat nose plier, all in a roll-up pouch. **(USA)**
No. 758PL012 ..... **$57.25**

Snap Ring Pliers and Kits

Replaceable Tip Snap Ring Plier

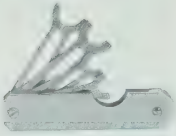
External sizes 1/8 thru 1", (3mm thru 26mm)
Internal sizes 1/4 thru 1", (8mm thru 26mm)

Adjustable stop with spring return. Push button convertible to or from external & internal action. Plastic cushion grips. 5 pairs of alloy steel tips w/Hex Wrench to change tip & stop adjustments in Tip Kit pouch. **Contains 5 tip sizes:** Straight: .023" (.6mm), .036"(.9mm), .047"(1.2mm), Bent-90°: .036" (.9mm), .047" (1.2mm). 6-1/4" OAL. **(USA)**
No. 435PL1212 ..... **$18.50**

Metric Grip Ring Plier

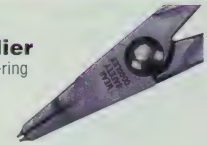
For small size external rings.
Capacity: 2, 2.5, 3, 4mm.
6" (160 mm) OAL.
No. 692PL790 .. **$21.95**

E & C External Retaining Ring Tool



For applying external retaining rings. Tool has rings in 20 larger sizes. Tool applies stacked or unstacked rings. Just enough tension to grasp one ring at a time and release it into the groove.
No. 472MI022 ..... **$48.25**

Convertible Snap Ring Plier

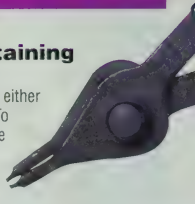


The all-purpose snap-ring plier that can be used for both internal and external rings. (.038" dia.) **(USA)**
No. 568PL012 Internal/External **$19.50**
No. 568PL016 Fixed Tip Internal (shown) **$14.00**
No. 568PL018 Fixed Tip External **$14.00**

Snap Ring Pliers Kit - 10 pc

Three basic tip diameters handle most external and internal rings. Includes: Internal Plier (568PL034) & External Plier (568PL036), and four pairs of assorted replaceable tips.
No. 568PL028 Kit **$37.50**
No. 568PL034 Internal Only **$18.50**
No. 568PL036 External Only **$18.50**

Convertible Retaining Ring Pliers



Interchangeable, for use as either internal or external pliers. To change, simply unscrew the pivot screw and move it over to the adjacent tapped hole. ***Lifetime Warranty.***
Small - 6" OAL, .047" Tip
No. 294PL024 ..... **$12.05**
Large - 7-3/4" OAL, .070" Tip
No. 294PL026 ..... **$13.20**

Snap Ring Plier Set

Combination Internal-External. effective range 10-50mm. Set comes with 180°, 90°, 45° 3-piece convertible tips. Jaws can be exchanged easily for six different internal-external purposes. To exchange jaws:
1) Push spring retaining joint inward,
2) Lift retaining stop upward to horizontal position to loosen the jaws, 3) Put the retaining stop in vertical position to hold the jaw in place.
No. 388PL159 ..... **$12.95**

Snap Ring Kit - 107 pc

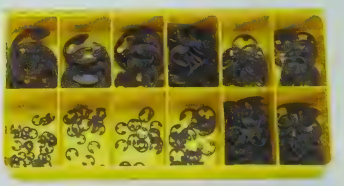
Includes 107 different size internal and external snap rings. **(USA)**
No. 322PR2550 **$149.95**

Emergency Snap Ring Kit - 52 pc

Includes the 52 most popular internal and external snap rings for emergency repairs. **(USA)**
No. 322PR985 *(Not Shown)* **$9.95**

Snap Ring Kits

External carbon rings for use to retain spring steel construction. External "Snap" rings contains: 1/4", 5/16", 3/8", 7/16", 9/16", 5/8", and 3/4" dia; 1/2" dia; 1" dia; 1-1/4" dia; 7/8"; 1-5/16", and 1-3/8" dia; 1-7/16, 1-1/2", 1-5/8", 1-3/4" dia; 1-7/8", 2", 2-1/4", and 2-1/2" dia; 2-5/8", 2-3/4", 2-7/8", and 3" dia. **(USA)**
No. 449PR300 300 pc Kit **$31.90**
No. 449PR126 125 pc Kit **$10.65**



E-Clip Kits

External carbon clip for positive retention of pulleys, sprockets, springs and bearings on rods and shafts, carbon steel. E-Clips contain: 3/16", and 1/4" dia.; 3/8" dia; 1/8", 5/16", and 1/2" dia.; 7/16" dia.; 5/32", and 7/32" dia.; 5/8" dia.; 3/4" dia.; 7/8" dia. **(USA)**
No. 449PR301 300 pc Kit **$31.90**
No. 449PR128 125 pc Kit **$10.65**

O-Ring Assortments

O-Rings Kit - 382 pc

Tough and Flexible. Buna-N 70 durometer rubber compound creates an effective seal lines. **Includes:** 1/6" thick 1/8", 5/32", 7/32", 1/4", 5/16", and 3/8" I.D.; 3/32 thick 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", and 3/4" I.D.; 1/8 thick 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-3/16",1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2" I.D.; 3/16" thick 1-1/2", 1-5/8", 1-3/4" I.D. **(USA)**
No. 449PR382 ..... **$36.10**

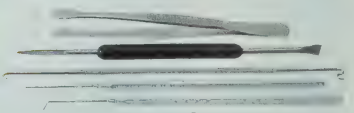
O-Rings Kit - 127 pc **Contains**: 1/16" thick. 5/32" I.D., 1/16" thick, 1/4 I.D.; 3/32" thick 7/16 I.D., 3/32" thick. 9/16" I.D.; 3/32" thick, 3/4" I.D.; 1/8", 1" I.D. **(USA)**
No. 449PR127 ..... **$8.50**

Housing Rings Kit - 300 pc

Contains: 3/8", 7/16", 1/2", 5/8", 11/16", 3/4", 13/16", and 7/8" dia; 1" dia; 1-1/16", and 1-3/8" dia; 1-1/8", and 1-1/4" dia; 1-1/2"; 1-5/8", 1-3/4", 2" dia; 2-1/4", 2-3/8", and 2-1/2" dia; 2-5/8", 2-3/4", 2-7/8", 3" dia. **(USA)**
External Housing Kit
No. 449PR129 ..... **$31.90**
Internal Housing Kit
No. 449PR125 ..... **$10.65**

Jonard E-Ring Clip Setter

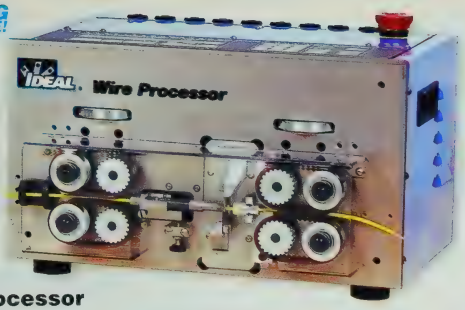
Chrome-nickel steel, holding-spring nickel finish, for setting and withdrawing miniature E-rings and E and C clips 1.5mm and up. 6-3/4" OAL.
No. 306PR020 ..... **$13.25**



"O" - Ring Tool Kit - 5 pc

Designed for replacement of O-Rings, gaskets, bearings, seals, etc. on pneumatic and hydraulic devices. Constructed of the finest surgical stainless steel for corrosion resistance to all working fluids, these tools are suitable for use in clean rooms. Packed in a reusable, vinyl pouch, the kit contains a tweezer, piercing probe, prying probe, flat face pry, scrape tool and hook for lifting.
No. 758TT393 ..... **$14.50**

LEASING AVAILABLE!



Wire Processor

This Ideal wire processor automatically measures, cuts, strips and counts a wide variety of wires quickly and precisely. Features a tractor feed belt that grips and controls the wire for precision stripping and cutting. It performs full or semi-strips at one or both ends of the wire. The "Wire Out" electromechanical sensing device provides unattended monitoring capabilities, automatically warning of the need to reload. Equipped with an emergency stop button and interlocking safety guard. **Specs:** Cut Length: .06" - 9,999.99"; Strip Length: .01"- .99"; Cut Capacity: 30 - 8AWG; Feed Speed: 193FPM; Voltage: 120V; Dimensions: 16"W x 13.5"D x 9.5"H. **(USA)**

No. 462PR774 ..... **$7995.00**

Wire Prepper® Lite Wire Cutter

Automatic measure, cut and count wire processor handles tubing and heat shrinkable tubing, #10 stranded to #30 AWG wire and up to 5/16" multi-conductor and semi-rigid cable. Cuts lengths from .06" (1.66mm) to 9,999.99" or from 1 to 9,999 cm. **(USA)**

No. 462ST725 ..... **$2721.21**

Stripmaster®940 Wire Stripper

Automatically strips insulation from #30 AWG to #8 AWG (.05 mm² - 6 mm²) for commercial and military wire stripping specifications. **Features:** LCD display monitors strip settings and strip length in English or metric. **Specs:** Strip length: .060" (1.5 mm) Min., 1" (25 mm). **(USA)**

No. 462PL940 ..... **$2923.29**
No. 462AC847 V-blade .075 in **$59.75**
No. 462AC848 V-blade .095 in **$59.75**
No. 462AC849 V-blade .115 in **$59.75**
No. 462AC850 V-blade .135 in **$59.75**

LEASING AVAILABLE!

IDEAL

Wire Prepper® Wire Cutter System II

Cut 5/16" diameter tubing, heat shrink tubing, 10 to 30 AWG wire and up to 3/8" dia. multi-conductor, semi-rigid and 3/4" ribbon cable. Standard features include: retained memory, wire alarm, wire length calibration, modes and pause batching. **(USA)**

No. 462ST700..... **$4095.00**

Pow-R-Master™

A hand-held, pneumatic power wire stripper that utilizes the same blades that are currently used in the Stripmaster, Custom Stripmaster and the Power Stripmaster. Enough power to strip wire ranging in size from 30 AWG to 8 AWG. Reduce fatigue associated with repetitive motion disorders such as Carpal Tunnel Syndrome by utilizing the entire hand. Portable and flexible, with the capacity to strip up to six different size wires in one set-up. Lightweight (approx.. 3 lbs.) to reduce fatigue over long periods of use. Utilizes the same blades* as the standard-sized, knifed-type Stripmaster & the die-type Custom Stripmaster. *(Blades Sold Separately)* Grit Pads are standard. **(USA)**

No. 462ST521..... **$1163.76**

Power Stripmaster® Wire Stripper

Utilizes pneumatic power with foot pedal actuation. Performs medium to high volume stripping with minimal investment. Instant, accurate, effortless stripping of 8 to 30 AWG (5.25mm² Nom. To .050 mm² Nom.) wire. **(USA)**

Power Stripmaster® Wire Stripper with foot pedal, hook-up kit and air blast.

No. 462PL146 ..... **$841.20**

Bench Model Or Hand Tool!

Thermal Wire Stripper

No blades to cut or nick wire. Strips Teflon. Continuously variable heat control. Capacity: No. 12 AWG to No. 36 AWG. Parallel heated tips. Max. strip length 1"- Adjustable. *Meets Mil-Spec.*

No. 878ST048 ..... **$274.50**

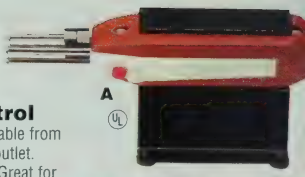
No. 878ST044 Replacement Tips..... **$30.60/doz.**

TW-1 Stripall® Plus Thermal Stripper

This hand held "Plug-N-Go" unit is completely self-contained with adjustable stops for both wire gage and strip length. UL Approved. (Stand Included). **(USA)**

A. No. 768ST026 117 VAC **$214.00**

No. 768ST028 220 VAC **$247.10**



A

TWC-1 Stripall® Plus with Temp Control

Same handheld unit with solid state temperature control adjustable from 100°F to 1700°F in 4 seconds! Controller mounts at electrical outlet. Accomodates high and low melt insulations on 10 to 36 AWG. Great for Teflon, Kapton, Kynar and more. (No Stand) **(USA)**

B. No. 768ST040 117 VAC **$279.55**

No. 768ST042 220 VAC **$247.10**

TWC-1 ESD Version

Case and power cord meets ASTM Standards. 117 VAC

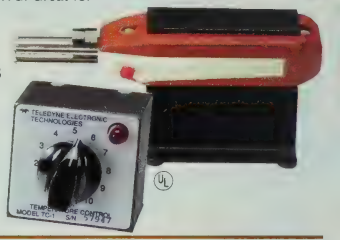
No. 768ST001 ..... **$368.15**

TW-2 Long Nose Version

Strips up to3-1/2" in single strip. *(Not Shown)* **(USA)**

No. 768PL112 117 VAC **$235.05**

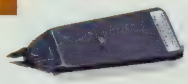
No. 768ST002 ESD Version **$308.75**



B

Flat Cable and Power Cutters

Micro-Pneumatic™ Series Lead Cutter

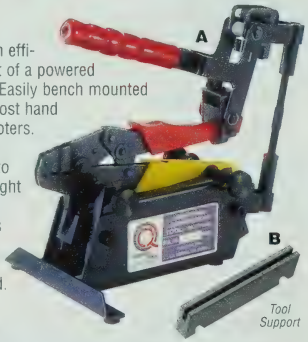


Designed to fit in your operater's hand, this lightweight, ergonomic, pneumatic shear reduces hand fatigue associated with repetitive motion. The cutter head features a Micro-Shear® cutting head for ultra-clean, flush-wire cuts. Rated for soft wires less than 1 mil., and up to 16 AWG; the heads are suitable for cutting other materials, including plastics. Operates on a dry, unlubricated 50PSI max. air line at 0.13 cubic ft per minute. 5.5"L x 1.5"W x .6" Thick. Wt: 6 oz. **(USA)**

No. 892PL590 Flush cutter **$117.95**

No. 892PL592 Flush cutter w/lead retainer..... **$121.10**

Unicon 3 Universal Conversion Tool



A

B

Tool Support

Converts any hand-crimp tool to an efficient bench tool at 50% of the cost of a powered tool. One hand, manual operation. Easily bench mounted for quick, simple setup. Accepts most hand crimping tools without special adapters. Accepts hand-crimp tools with an open span between handles of up to ten inches. Base Dia. is 7" x 7". Height is 18" max. (to handle). Standard plastic tool support accommodates about 75% of hand-crimp tools used. ***Call for Information about Tool Support.*** Crimper not included.

Crimping Tool 5-1/4 lbs

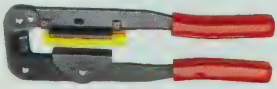
A. No. 671PR018 ..... **$399.00**

Tool Support-Machinable (Plastic)

B. No. 671PR010 ..... **$29.95**

No. 671PR012 Mounting Base-For Crimper *4 lbs.*. (Not Shown).. **$89.95**

IDC Crimp Tool



For crimping many styles of IDC Connectors onto ribbon cable. Works with card edge connectors, D-Sub, Centronics style & others. All steel with cushion grips.

No. 388ST463 ..... **$23.00**

Bench Mount Crimp Tool

The Bench Mount full-cycle Crimp Tool and hand-held, full-cycle. Cavities Include: .068. .098. .128. .178. .213. .255. .324. .384. .429 hex sizes.

No. 694ST024 ..... **$240.00**

Uses Your Standard Hand Crimpers!

Universal Power Crimper

Swivel Base

Foot-controlled, pneumatic power assistance for the operation of hand-crimping tools. Tools open automatically for next crimp. Size: 8"W x 8"H x 16.5"D. 70 to 120 psi built-in regulator included. Force Exerted: 0 to 600 lbs. Changing from one crimp tool to another is easy! 80% of all hand-held tools may be used. HAND TOOLS THAT CAN BE USED WITH UNIVERSAL POWER CRIMPER: Amp, Bendix, Berg Electronics, Burndy, Deutsch, Holinsworth, ITT Cannon, Molex, Panduit, Thomas & Betts, TRW Cinch Connectors, Vaco Products.

*****CALL FOR ADAPTER***

Without Base

No. 376ST010 ..... **$625.00**

Swivel Base

No. 376PA689 ..... **$68.00**

*****NOTE: When ordering an adapter, call for corresponding part number. Techni-Tool Customer Service will Cross Reference and recommend a polyurethane adapter.***
No. 376ST01**

Telco MI-1® "Butterfly" Hand Tool With Base

This tool is designed to mass terminate all conductors in Champ® connectors using the AMP® insulation displacement technique. It may be utilized for 14, 24, 36 and 50 pos. Champ® connectors – plug or receptacle style. For 90° wire dress.

No. 104PR378
$954.30

AMP

Full Cycle Crimp Tool

Crimps most available coax connectors. Nine cavities in one jaw eliminates multiple tools. Cavities Include: .068. .098. .128. .178. .213. .255. .324. .384. .429; 18" OAL. *Meets Mil-Spec.*

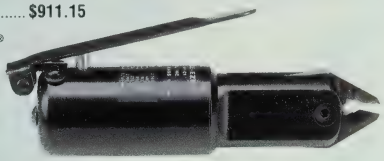
No. 694ST022 ..... **$225.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Squeeze-Eze® Power Pack

Universal Crimping Tool UC-50

UC-50 is a complete crimping system, including a power pack, universal crimp jaw and housing, benchstand and footswitch (jaws not included). The power pack and jaw housing are made of durable aluminum, with the jaws and inserts made of AISI-S1 tool steel. Includes 2 hoses. 9-1/2"L x 5"H x 4"W. 3 lbs.
No. 716PL050..... **$911.15**

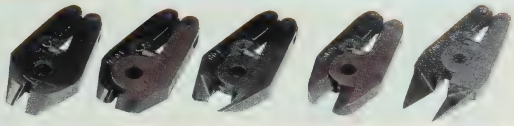


Squeeze-Eze® Power Pack SP-01

This powerful tool (575 lbs. Force @ 80 psi) is designed to be used with the jaw sets listed below. It is small (5-1/2" long x 1-1/12" diameter), lightweight (11 oz.) and can be operated at air pressure of 60-100 psi. A built-in adjusting screw controls the opening of the jaw sets, all of which are made of AISI-S1 tool steel. Includes one 5 ft. hose, hex keys and a hanger. Heads can be used for left or right-handed operation. **(USA)** (Jaws included, UC-50 sold separately)
No. 716ST132..... **$254.70**

Squeeze-Eze® Power Pack SP-02

SP-02 is designed to use the identical jaw sets as the SP-01, but delivers considerably more power for tougher applications. SP-02 with 850 lbs. of cutting force can cut up to .100" soft steel wire. **(USA)**
No. 716ST134..... **$297.70**



SP-01 & SP-02 Die Sets

	CC-1/CC-1SR Jaws	HCC-1	CD-1 Semi-Flush CD-11 Flush	CD-4	CD-6 Tapered Outside Edges
TT No.	716ST032	716PL014	716ST038	716ST044	716ST006
Max. Wire	Soft .050"/ 1.27mm	Soft .060"/ 1.52mm	.060"/ 1.52mm	Soft; To .080"/2.02mm	Plastic Only; To .187"/4.75mm
Rise	.040"/ 1.02mm	.040"/ 1.02mm	Semi-Flush .007"/.018mm	Center Cut	15° Angle
Angle	45°	45°	45°	–	Full Flush Cut; 15°
Lgth of Cut	3/8"/10mm	3/16"/4.75mm	7/16"/11mm	1/2"/13mm	7/8"/22-23mm
PRICE	$71.40	$73.90	$71.40	$77.20	$103.10

UC-50 Die Sets

UC-50-1 RG58, RG59/62 AU BNC/TNC three piece hex cavities for MS39012-type, AMP, Trompeter, Kings, Amphenol and other connectors. Triple hex cavity die with crimp dimensions of .255, .213 and .068.
No. 716PL051 ..... **$32.00**

UC-50-2 RG59, RG8281 and RG6 cable groups and 50 and 70 ohm cables. Quad hex die with crimp dimension of .324, .255, .068 and .042.
No. 716PL052 ..... **$32.00**

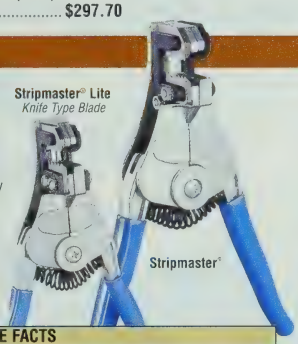
UC-50-5 RG58 and RG59 Plenum and Teflon cables. Quad hex die with crimp dimensions of .190, .213, .068 and .042.
No. 716PL055 ..... **$32.00**

UC-50-7RG59 and RG6 CATV "F" connectors. Triple hex die with crimp dimensions of .350, .320 and .255.
No. 716PL057 ..... **$32.00**

Ideal Stripmaster

Stripmaster®

One light squeeze strips wire clean up to a full 7/8". Automatic feature holds jaws open to remove wire without crushing ends. Practically eliminates all nicking, cutting or fraying. Especially good for stripping lighter gauge wires, automotive wire, telephone or fixture wire, etc. Blades change by removing only two screws.



JUST THE FACTS

Frame & Blade	For Wire Gauge	No. of Holes	PRICE	Extra Blade Sets Only	PRICE
No. 462ST024	8-12	3	$27.50	No. 462ST196	$9.75
No. 462ST026	10-18	5	$27.50	No. 462ST198	$9.75
No. 462ST028	10-22	7	$27.50	No. 462ST200	$9.75
No. 462ST030	14-22	5	$27.50	No. 462ST202	$9.75
No. 462ST034	16-26	6	$27.50	No. 462ST212	$9.75
No. 462ST036	20-30	6	$27.50	No. 462ST230	$9.75
No. 462ST038	8-10-16-18	4	$27.50	No. 462ST294	$9.75

Stripmaster® Lite Wire Stripper Uses the same type of precision blade as its larger strippers. Features an optional short-stop latch and transparent wire stop. Sturdy die-cast zinc, this little stripper weights 50% less than its full-sized counterparts. Strips solid or stranded wire.

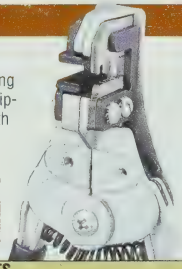
Stripmaster® Lite Wire Stripper and Knife-Type Blades

JUST THE FACTS

Frame & Blade TT No.	For Wire Gauge	No. of Holes	PRICE	Extra Blade Sets Only	PRICE
462ST671	16-22	4	$37.50	462ST1001	$9.75
462ST672	24-30	4	$37.50	462ST1002	$9.75

Custom Stripmaster®

Unique blade construction and extreme holding power of broad jaws permit fast, accurate stripping without nicking or scraping wire and with out marking insulation. *For General Purpose Stripping of Plastic & Fiberglass.* are standard.



JUST THE FACTS

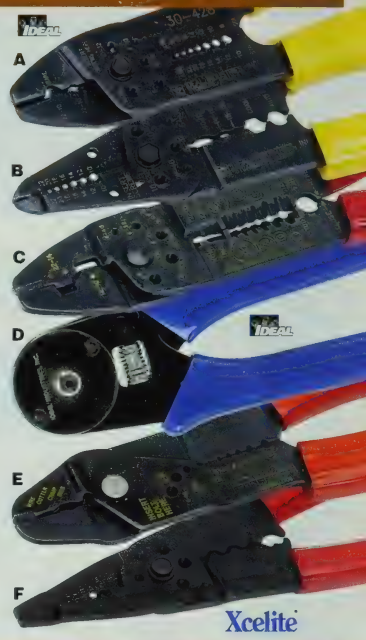
Wire AWG	No. of Holes	No. (without latch or wire stop)	PRICE	No. (with stop latch & wire stop)	PRICE	Replacement Blades (pair) No.	PRICE
For Teflon Wire Type E 600V							
10-14	3	462ST088	$124.80	462ST108	$144.25	462ST559	$60.15
16-26	6	462ST090	$124.80	462ST110	$144.25	462ST238	$60.15
26-30	3	462ST092	$124.80	462ST112	$144.25	462ST240	$60.15
For Teflon Wire Type EE (1000V)							
16-26	6	462ST084	$124.80	462ST104	$144.25	462ST244	$60.15
26-30	3	462ST086	$124.80	462ST106	$144.25	462ST246	$60.15
For PVC & Other Insulations							
10-14	3	462ST076	$124.80	—	—	462PA521	$60.15
16-26	6	462ST078	$124.80	462ST098	$144.25	462ST218	$60.15
For Wire Wrap (Thin Insul.) Solid Wire							
30	1	462ST094	$124.80	—	—	462ST288	$60.15

Short-Stop Latch Optional Short-Stop Latch protects wire strands by limiting stripping stroke to 5/32". Disengages without removal to allow full 7/8" stroke.
No. 462ST226 ..... **$7.35**

Wire Stop Transparent Wire Stop provides uniform stripping length with a simple adjustment. 1-1/8" max.
No. 462ST228 ..... **$5.80**

No. 462ST992 For Stripmaster Lite..... **$5.25**

Strippers & Crimpers



Ideal Multi-Stripping/Crimping Tool
Nick-free stripping of 8 to 20AWG solid and 10 to 22AWG stranded wire. Bolt Cutting Convenience: Handles 4-40, 6-32, 8-32, 10-24 and 10-32; cuts 10 to 22AWG solid wire. 8" OAL.
A. No. 462ST010 ..... **$24.65**

Ideal 7-in-1 Stripper
Made of hardened steel, cuts and strips up to 8 AWG stranded wire; crimps 10 to 22AWG terminals; cuts unhardened bolts and screws #4 to #10 with a conduit-tapered nose to ream and deburr.
B. No. 462ST777..... **$24.65**

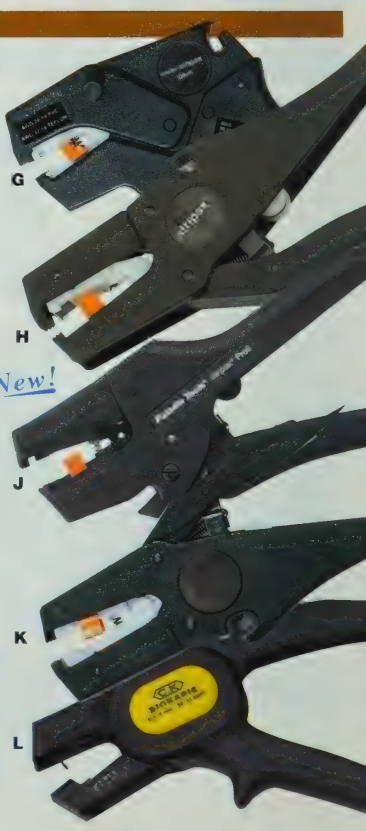
Klein® Super All Purpose Tool
For crimping insulated terminals in sizes 22 to 10AWG. Splices, cuts, strips wire, cuts 5 bolt sizes, crimps 7mm ignition terminals. Cutter in nose. Cushion grip handles. 8-1/2" OAL. **(USA)**
C. No. 490ST012 ..... **$20.00**

Ideal Precision Crimp Tool
Designed to crimp solid barrel contacts, D-subminiature contacts for 20-26AWG RS232 Interface connectors. 4-way indent dies per MS22520, full-cycle ratchet, built-in pin & socket locator, comfort grip handles. Small compact tool made of high grade steel.
D. No. 702ST704 7" OAL **$79.45**

Vaco 1963 Multi-Purpose Crimp Tool
Crimp solderless insulated and non-insulated terminals. Strip wire 22 to 10AWG. Cuts bolts: 4-40, 5-40, 6-32, 8-32, 10-24, 10-32. Black oxide finish with jumbo cushion-grip handles. 8-1/8" (206mm) OAL. **(USA)**
E. No. 828ST012 ..... **$17.80**

Xcelite® Strip & Crimp Tool
Strips 22-10AWG to No. 10 Insulated/ non-insulated. Crimps 22-20AWG to 12-10 Electrical, 22-10AWG to 12-10 Insulated, 7-8 mm ignition terminals. Cuts bolts 4-40, 5-40, 6-32, 8-32, 10-32, 10-24. Wire cutter in front with serrated jaw, needle nose plier on end. Cushion Grips. 8" OAL. **(USA)**
F. No. 272ST016 ..... **$27.55**

Strippers



Paladin Mini-Stripax® Plus
Compact, self-adjusting wire stripper is designed for smaller wire. It will strip solid or stranded wires from 28-18AWG PVC, 32-18AWG Teflon. A built-in cutter eliminates the need for a second tool. Compact size for tight jobs with little space. Made to fit the hand and operate with low force for less fatigue. Half the size, twice as versatile as competitive tools.
G. No. 618ST064 ..... **$80.35** ***Paladin Tools®***

Paladin Stripax®
The Stripax® strips 20-12 AWG (0.52 - 3.3mm²) solid and stranded conductors with all grades of PVC insulation; multiple conductors; double insulated cable in two working cycles without adjustments. Jaws open automatically after stripping. **Features:** wear-free gripping jaws; self adjusting stripping blades; built-in cutter.
H. No. 108ST010..... **$54.40**

Replacement Blades
No. 618ST082 PVC 28-18AWG..... **$20.00**
No. 620AC170 Telfon 18AWG **$39.35**
No. 618ST2142 Telfon 24-22AWG..... **$39.35**
No. 618ST2143 Telfon 28-26AWG..... **$39.35**
No. 618PR144 Telfon 32-30AWG..... **$39.35**

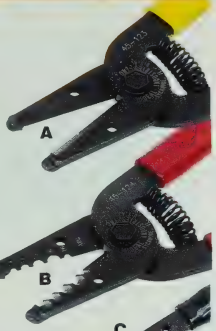
Paladin Stripax® Pro6 Precision Wire Stripper
Stripax® Pro6 Precision Wire Stripper performs powerful stripping of standard and industrial insulation's including PVC, THHN, silicone and polyethylene for a wire range of AWG 28-10. The ergonomically designed, contoured handles let you hold the tool in a natural position so stripping is comfortable and requires less effort. Provides nick-free stripping of insulation with no damage to conductors. The built-in cutter provides a smooth, straight cut without distorting the conductor. The stripping blades are composed of 68 individual spring-compression blades to adjust precisely to the insulation. ***One-Year Warranty.*** **(USA)**
J. No. 618PR266 (1113)..... **$75.50**

Xcelite® Combo Stripper
Wire stripping from 11 to 20AWG in one step. Has a sensor which automatically adjusts to cut and strip solid-standing wire and multiple-conductor cable. Strong enough to cut and strip as many as six conductors at once in bonded or molded cables. Built-in cutter. Feed from the front. The fiberglass-reinforced, nylon tool body is electrically insulated. Stainless steel, self-adjusting blades are rated for up to 100,000 strips. Includes wire brush cleaner.
K. No. 272ST812 (SAS-2812)..... **$75.35** Xcelite
No. 618ST078 Replacement Stripping Blades..... **$27.95**

Super 4 Automatic Wire Strippers
Ergonomic, automatic wire stripper with integrated safety cutter for wires up to 2.0mm (5/64") ∅. No adjustment necessary. For solid and stranded conductors. 20-13AWG.
L. No. 217PL040..... **$29.10** C.K

Strippers & Cutters

Lightweight strippers feature precision form-ground, knife-type blades that give an accurate and easy strip every time. All models have built-in wire cutter, looping holes and cushioned plastic grips.



Ideal T-Cutter - For Cutting Only
Wire Range: Up to 1/2" OD
A. No. 462ST046 ..... **$9.55**

Ideal T-Strippers - For Electrical Construction & Maintenance ..
T-8 stripper, 8-16 AWG Stranded
B. No. 462ST048 ..... **$9.55**

Ideal Super T®-Strippers

Specifically designed for use with electronics. Ergonomic-ESD comfort grips. Designed to reduce hand fatigue; locking pawl keeps the tool in a closed position for easy storage; spring will not come off. **(USA)**

Wire range: 16-26 AWG Stranded
C. No. 462ST316..... **$19.00**
Wire range: 22-30 AWG Solid
No. 462ST317 ..... **$19.00**

Ideal Super T-Cutter - For Cutting Only
Wire range: Up to 10 AWG Solid and Fine Stranded to 1/2" OD.
D. No. 462ST323 ..... **$19.00**

Klein Wire Stripper

Compact and lightweight. Hole for looping or bending wire. Yellow plastic handles. Strong spring. 12 - 26 AWG. 5" OAL.
No. 490ST014..... **$7.35**

Tec-Cut® Wire Stripper & Cutters
Has adjustable screw stop for different wire sizes and cushion grips. Cuts and strips both solid and stranded wire, cleanly and neatly. Hardened with ground blades. Up to 10 AWG. 5" OAL

No. 272ST010 ..... (1-5) **$3.45** (6-11) **$3.30** (12+) **$3.10**
Specs same as above, except with spring-equipped, self-opening handles.
No. 272ST012 *(Not Shown)* **$4.45**

Has unique cam-stop adjustment for different wire sizes. Cam adjustment stays put, won't move, even with a loose screw. Fine for industrial use. Up to 10 AWG. 5-1/4" OAL.

No. 272ST014 (1-5) **$5.40** (6-11) **5.13** (12+) **$4.86**

For Production and Electronics
T-6 stripper, 16-26 AWG Stranded
A. No. 462ST044 ..... **$9.25**

Tec-Cut® T-Strippers - For Electrical Construction & Maintenance
T-5 stripper, 10-18 AWG Solid
No. 462ST042 ..... **$9.25**

Tec-Cut® Metric Wire Stripper

New!

Easy to use wire stripper can strip wires with clean and easy strip. Stripping hole dia.: 0.25 0.3, 0.35, 0.4, 0.45, 0.5. (Japan)
No. 445PL952..... **$29.90**

Tec-Cut® Metric Wire Stripper

Quick, easy, and clean stripping of wires. Stripping Hole dia.: 0.3, 0.4, 0.5, 0.65, 0.8, 1.0, 1.2mm. 6" (160mm) OAL.
No. 692ST906 ..... **$28.90**

IDEAL

Wire Stripper

Use on all commonly-used insulated wires. Features a practical opening spring and lock & has colored soft plastic handles. Up to 10 AWG. 5-3/4" OAL
No. 571ST601 ..... **$5.10**

Dial-A-Strip

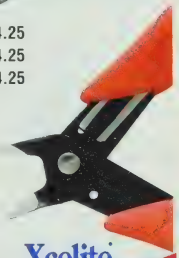
Quick & easy to reset exact wire sizes with the calibrated dial. Numbered 1 to 8 to give finer adjustments to compensate for wire variations up to 10AWG. 5-5/16" OAL
No. 571ST107 ..... **$4.55**

Ideal Reflex™ Premium T®-Stripper

Reduce repetitive motion fatigue. The Reflex™ Premium T®-Stripper is designed to curve at 45-degrees to fit your hand's natural grip, reducing wrist stress while stripping. **Features:** no-slip grips, and convenient looping holes.

10-18 AWG Solid
No. 462PL415 ..... **$14.25**
16-26 AWG Stranded
No. 462PL416 ..... **$14.25**
22-30 AWG Solid
No. 462PL417 ..... **$14.25**
No. 462PL418 8-16 AWG Stranded **$14.25**
No. 462PL341 5mm² - 4.0mm² **$14.25**

Midget Lightweight Diagonal Cutters
These inexpensive pliers shear wire up to No.14 AWG with unique flush-cutting action that minimizes fly-off. Compact head is easy to manipulate in tight areas. Comfortable plastic-covered handles. Steel hold-open spring. 5" OAL.
No. 490PL118..... **$8.50**



Electrical Stripper/Cutter

Xcelite

Wire cutting and stripping edges are in front of the pivot for use in tight places. Serrated-edge, needle nose pliers for wire pulling and bending. Scissor-action stripper cams insulation for cleaner, faster, more accurate stripping. 10-20 AWG. 0.8-2.6mm. **(USA)**
No. 272PL012 6" OAL **$13.10**

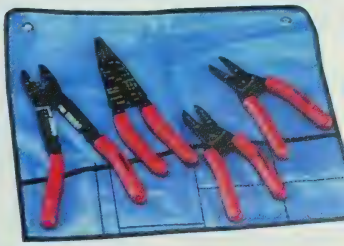
Ergonomic Insulated Wire Stripper & Cutter

Scissor-type cutter blade; power curve cushion handles reduce injury to hand, wrist and arm; spring automatically spreads handles; plier nose for pulling and looping wire; 7" OAL.

No. 787ST307 30/28/26/24/22 AWG ..... (1-11) **$14.45** (12+) **$13.00**
No. 787ST506 26/24/22/20/18/16 AWG ..... (1-11) **$14.45** (12+) **$13.00**
No. 462ST050 22-30 AWG Solid..... (1-11) **$14.45** (12+) **$13.00**
No. 787ST503 16/14/12/10/8 AWG ..... (1-11) **$14.45** (12+) **$13.00**

Ergo Strippers & Crimpers - 4 pc

The most preferred wire cutter/strippers now available in a kit. Patented design to perform hundreds of repetitive work tasks with less strain, stress and fatigue. All have ergonomic grips and return springs.
Contains: Crimper 8.75" OAL:cuts/strips 22-10 AWG, cuts bolts 4-40, 6-32, 8-32, 10-32, 10-24. Cut/Stripper 8.25" OAL: 22-10 AWG, cuts bolts 4-40, 5-40, 6-32, 8-32, 10-32, 10-24; Cut/Stripper 6" OAL: 30-22 AWG; Cut/Stripper 6" OAL: 20-10 AWG;and Roll Pouch.
No. 787ST001 ..... **$69.70**



"Cyclops" Stripper

The Cyclops cable stripper removes the outer sheath of all unshielded and shielded twisted-pair cable. Works on all plenum & non-plenum insulated cables up to 3/8" in diameter. NEC 800 rated cable applications!

No. 702ST108 ..... **$42.00**

Three-Level Stripper!

Toggle Coax Stripping Tool

"Toggling" blade design allows precise stripping of outer insulation, braid and dielectric on all brands of coaxial cable. Each toggle is pre-set and fabricated for one particular cable group. Any strip configuration can be done with just one tool. Fiberglass-reinforced, nylon body. Hollow, ground, stainless-steel blades. 3-1/4" OAL.

No. 618ST225 RG58 ..... **$42.00**
No. 618ST226 RG59..... **$42.00**
No. 618ST230 RG8/11U **$42.00**

Adjustable Coaxial Cable Stripper

For precise, fast, economical stripping. Handles tightly-wrapped stranded cables. CATV cable, CB antenna cable, SO, SJ, SJT and other types cables. Adjustable blades to assure nick-free strips.

Coaxial Stripper, to 1/8" O.D.
No. 462ST066..... **$19.90**
Coaxial Stripper, 1/8" to 7/32" O.D.
No. 462ST068..... **$19.60**
Coaxial Stripper, 1/4" to 9/16" O.D.
No. 462ST070 ..... **$33.40**
Coaxial Stripper, 3/16" to 5/16" O.D.
No. 462ST072 ..... **$19.95**

Replacement Blade Set (Three straight blades and one round blade) for 462ST066, 462ST068, 462ST072.
No. 462ST302 ..... **$4.70**
Repl. Blade Set (Three straight blades and one round blade) for 462ST070.
No. 462ST304 ..... **$6.50**

Ringer™ Shielded Cable Stripper

For precision stripping of most non-round shielded cable and other outer jackets, including extruded Teflon®, Kapton® PVC and Kynar® insulations. 8-10 Mil insulation thickness including Kynar®. Blade included.

No. 462ST402 ..... **$42.75**

Corex Coax Wire Strippers

Two Blade -

Strips all single and double-shielded coax wire in one clean action. With O.D. of 0.10" to 0.30", including RG58, RG59, RG142, RG122, RG174, 8281. Interchangeable cassette blades.

2 Blades 3 Blades

Three Blade -

For all crimp-style coaxial connectors. Removes dielectric, braid and outside insulation. Holds the cable securely while making consistent 360° cuts. Can strip all coaxial wire with an O.D. of 0.10" to 0.30".

	Coax Tool		Cassette		Repl. Blades	
Blades	TT No.	PRICE	Color	For Coax	TT No.	PRICE
2 Blade	618ST016	$61.95	Yellow	RG-6	618ST084	$25.50
	618ST014	$61.95	Blue	RG-58, 59, 62	618ST041	$25.50
	618ST015	$61.95	Red	RG-180-195	618ST043	$25.50
3 Blade	618ST018	$65.00	Green	Corex	618ST044	$25.50
	618ST020	$65.00	Brown	Dual BNC	618ST046	$25.50

CATV Coaxial Wire Stripper

This low-cost wire stripper works with all RG-59 & RG6 CATV drop cables. No adjustments needed. It features economical, easy operation and automatically produced industry standard strips. Its replaceable blades last 1000-2000 strips. (Sweden)

No. 272PL202 ..... **$8.40**

Delivers Crisp, Clean Strips!

CST Coax Stripper

Paladin Tools®

Cam-wheel, and cutting depth is adjusted without special tooling. Using the memory cartridge eliminates readjusting blade depth when stripping different cable sizes. **Three level strips on RG174 through 8281 cable as per MS39012 specifications.** Versatile cable size acceptance from 0.100" to 0.315" OD. Three-Step 0.279" - 0.201".

No. 618ST1240 ..... **$69.65**
No. 618ST2240 Replacement Cassette **$26.65**

LC CST - Economical Coax Strippers

Perform two and three-level stripping of coaxial cables with this LC CST - Coax Stripper. Adjustable blade depth for various coaxial cable thicknesses, can strip outer jackets, shield braids and inner dielectrics. Features: Self-regulating stripping; Pre-set strip lengths. ***One-Year Warranty.***

RG-58/59 Stripper
No. 618TE255..... **$15.95**
RG-11 Stripper
No. 618PR256..... **$16.60**

Replacement blade set
No. 618AC263..... **$8.25**
RG-6 Stripper
No. 618PL125..... **$15.95**

AM 12 Cable Stripper

New!

Cuts UTP and STP data cables and other flexible copper cables up to 12 AWG (4 mm²). Strips outer insulation of UTP and STP data cables as well as other round cables 0.08-.5" in diameter. Adjustable stripping blade for different insulation thicknesses prevents damage of shielding and conductors. Length gauge for repeated cutting and stripping length.

No. 618PL1112 ..... **$19.95**

3-Step Coax Stripper

Adjustable coax wire strippers allow blade adjustment for 2 or 3-step stripping of RG-58, RG-59/RG-62, Twinax or RG-6. Strips braid .240" (6mm) for Dual Crimp BNC and TNC connectors. Other sizes available.

No. 702ST806 ..... **$26.50**

A B C

Strip PVC, Teflon, and More!

Precision Wire Strippers

For fast, no-nick uniform stripping, simply set the matching-length gauge (50mm scale with 1mm grad.), insert wire matching gauge, press, pull and strip. Strippers are color-coded. (Germany)

For Solid or Stranded Wires or Wire Wrap

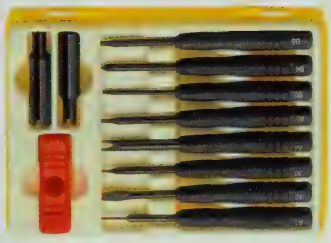
A. No. 217ST756 (Red) Single Blade – 26AWG Not Adjustable **$25.55**
B. No. 217ST3757 (Yellow) 36-26AWG Adjustable **$37.25**
No. 217ST757 (Yellow) 30-20AWG Adjustable **$37.25**
No. 217PL818 (Yellow) 28-18AWG Adjustable **$37.25**
C. No. 217PL757 (Black) 30-20AWG Adjustable **$44.20**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

New!

C.K

Cellular Phone Maintenance Tool Kit - 10 pcs



Includes: High alloy steel blades; Pressing blade; Panel pry bar; additional T-grip; Screwdrivers, slotted: Tip: 0.5mm, 2.0mm (.020 and .079"); Torx: TX5, TX6; Torx Tamperproof: TX8; Philips: PH1; Antenna-repair-tool: Type A and Type B. (Germany)
No. 217SC243 ..... **$13.50**

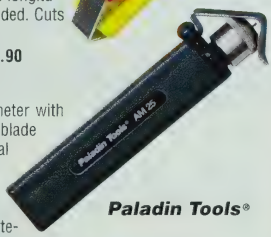
Swivel-Blade Cable Stripper

Makes center or end strips on most types of common cable, quickly and easily. Blades adjust for insulation thickness up to 5/32". Strips PVC, rubber, neoprene, etc. **(USA)**
Cable Stripper for 1/4" to 3/4" O.D.
No. 462ST054 ..... **$23.85**
Cable Stripper for 3/4" to 1-1/2" O.D.
No. 462ST056 ..... **$29.95**
Replacement Slitting Blade
No. 462ST286 ..... **$8.00**

JOKARI® Cable Knife

Easy as 1, 2, 3: place knife to cable and turn it around; move knife lengthwise along cable, blade sets itself automatically; detach cable sheathing. **Features:** blade with automatic setting, from round to longitudinal cut; high precision. Spare blade included. Cuts 5/16" to 1-1/8" (8-28 mm). (Germany)
No. 217PL160 ..... **$16.90**

Wire Stripping Tool



Strip round cables from 0.18 - 1" in diameter with this wire stripper. Designed with a swivel blade for circular cuts, longitudinal cuts, spiral cuts, and window splices. Has an adjustable cutting depth for insulation up to 0.18" thick. **Features:** spare blade in the handle, and cable holding clip with integrated edge for removing slit insulation. (Germany)

Paladin Tools®

No. 618ST820 ..... **$37.00**

A. UG Connector

This connector allows direct bridging onto an existing wire without pulling slack or interrupting downstream service in telephone applications. Use them for cutting in loading coils and for bridging joints on cable taps. They insulate any two-wire combination of 19 thru 26 gauge copper wire with a maximum insulation O.D. of .066.
No.105CN043 100/bx **$20.00**

B. UY Connectors

UY connectors are small and compact, with two ports designed for straight splicing. They accept two solid copper conductor combinations of 22 thru 26 gauge copper wire with a maximum insulation O.D. of .060.
No.105CN045 100/bx **$12.00**

C. UR Connectors

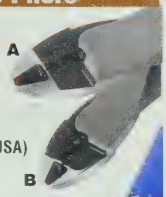
These connectors handle 19 thru 26 gauge solid copper wire. Cut into service in ready-access cases, pedestal mounts and for pigtail joints on cable splices. Three-port construction makes them a perfect connector for general splicing or tapping in load coils, such as toll cable splicing. Maximum insulation O.D. of .066.
No.105CN044 100/bx..... **$15.00**

Tec-Cut® Connector–Crimping Pliers with Side Cutters

Designed to seat UG, UR and UY connectors. A special stop behind cutout prevents damage to connectors. Features yellow plastic-dipped handles, with coil spring. **(USA)**
No. 490PL234 ..... **$17.00**

Tec-Cut® Cutters & Crimp Pliers

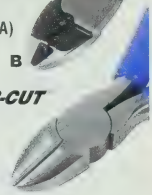
Crimp Pliers



Designed for installing insulated and non-insulated splices, disconnects and wire joints. The crimping die is marked for insulated and non-insulated solderless terminals and connectors. Constructed with a wire cutter in nose and a thin nose that allows for work in tight areas. Accommodates wire: 10-22 AWG. 9-3/4" OAL. **(USA)**
A. No. 668PL033 Insulated **$19.90**
B. No. 668PL1032 Non-Insulated **$19.50**

TEC-CUT

Side Cutter

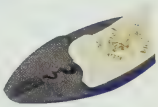


Standard diagonal tapered nose side cutter with comfort grip ESD handles. 5-1/2" OAL. **(USA)**
No. 668PL002 ..... **$16.35**

High-Leverage, NE-Type Side Cutters

Side-cutting pliers come with super-tough cutting knives, specially designed and heat-treated to cut bolts, nails, ACSR and hardened wire. Crimping die at the hinge. Plastic-dipped handles. 9-1/4" OAL. **(USA)**
No. 490PL213 (D213-9NE-CR)..... **$33.55**

Non-Insulated Terminal Crimping Tool



Designed for crimping non-insulated, solderless terminals and connectors from 10 to 22 AWG. Hardened wire cutter in nose. One handle is red, the other black to identify proper crimping position. 9-3/4" OAL. **(USA)**
No. 490PL010 Non-Insulated **$23.70**
No. 490ST016 Insulated **$22.95**

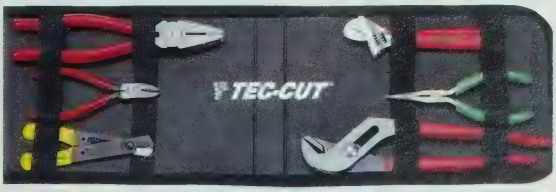
Diagonal Pliers - Skinning and Stripping

Crescent

Use on rubber-covered service wires such as high strength drop wire, distributing frame wire, and switchboard wire. A.042 / .047" skinning hole is provided for removing the rubber insulation of service wires. V shape notches are provided at the edges of the jaw for use in skinning PVC insulated wire. Flat serrations between the handles below the joint for crushing insulation. 6-1/6" OAL. **(USA)**
No. 272PL601 ..... **$16.35**

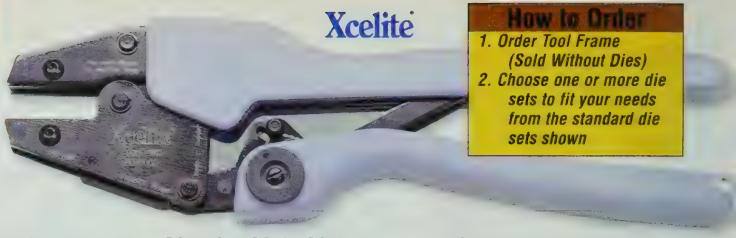
Diagonal Crush and Strip L Type Cut Pliers

These pliers have a side cutter, a crushing slot to crush insulation, a stripping notch to strip DT22P wire (22 gauge solid copper with PVC insulation), and a long thin nose. Aluminum Oxide Insulation coating on the outside nose surface. 6-3/4" OAL. **(USA)**
No. 272PL602..... **$31.15**



Tec-Cut® Utility Kit 6 pc

Just the right tool for 90% of all your installation adjustments.This compact kit features famous quality products from Xcelite & Crescent. The kit contains a 6" adjustable crescent wrench, long needlenose w/cutter, diagonal cutter, electrician's pliers, wire stripper, pump pliers and case. **(USA)**
No. 758PL014 ..... **$95.00**



How to Order
1. *Order Tool Frame (Sold Without Dies)*
2. *Choose one or more die sets to fit your needs from the standard die sets shown*

Xcelite® Ergocrimp Plus

In the field or in the plant, these ergonomically designed crimpers will increase your productivity. Crimp tool frame only.
No. 272ST100 ..... **$74.10**

Coaxial Connectors Dies

22-10 AWG Insulated terminals and splices.
No. 272AC100..... **$80.25**

22-10 AWG Non-Insulated terminals and splices.
No. 272AC0101..... **$109.50**

RG58, RG174, 50 and 75Ω center contacts- .213", .178", .068", .042" hex cavities.
No. 272AC103 ..... **$80.25**

RG174 BNC/TNC- .178", .128", .068" hex cavities.
No. 272AC105 ..... **$80.25**

RG8, RG11, RG213, RG216-Ethernet N-series- .429", .100", and .080" hex cavities.
No. 272AC106 ..... **$80.25**

RG58, RG59/62AU BNC/TNC- .213", .255", .068" hex cavities.
No. 272AC102 ..... **$80.25**

RG59, Belden 8281, 50 and 75Ω center contacts- .324", .255", .068", .042" hex cavities.
No. 272AC104 ..... **$80.25**

Other Dies Available – Call!

AMP Crimp Tools

AMP Pro-Crimper II®

Versatile. The *Pro-Crimper II* has interchangeable dies to achieve the correct crimp connection the first time–every time. Pick the Frame, add the Frame Dies you need, select a pre-configured Frame and Die set or pick the Kit.
No. 104PR494 Frame only **$83.30**

Die Sets

JUST THE FACTS			
TT No.	Amp No.	Use	PRICE
104PL361	58436-1	R658, 62, 59 - 50Ω BNC	$51.00
104PR436	58436-3	R6174/188/316 , 50Ω BNC 179/161/187	$51.00
104PL362	58436-2	Belden 8281/9141 - 50Ω BNC	$35.00
104PL425	58425-2	R6179/161/187 - 75Ω BNC	$43.35
104PL584	58425-1	R662/59 - 75Ω BNC	$43.35
104PL842	58425-3	Double Braid 59, Belden 8281	$43.35
104PR489	58489-1	SMB Die Set	$83.30
104ST423	58423-1	Insulated Terminal D.S.	$37.40
104PR545	58545-1	Uninsulated Terminal D.S.	$133.45
104PR448	58448-3	Size 20-D-Sub Min D.S.	$132.60
104PR424	58424-1	ST, FC, SC Fiber Optic D.S.	$51.00
104PR552	58552-1	FSMA Fiber Optic D.S.	$71.40

AMP Modular Plug Stripper/Crimper

Cuts, strips and terminates modular connectors. Color-coded die sets. Ratchet action. 7-1/4" OAL. Frame Only. **(USA)**
No. 104ST652 ..... **$94.50**

Hand Tool & Die
No. 104TE6523 (2-231652-1) 8-Position **$129.20**
No. 104TE6525 (2-231652-4) 4 & 6-Position..... **$129.20**

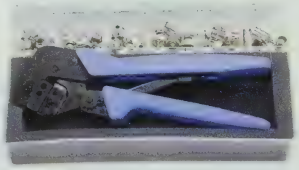
Die Set Only
No. 104TE6511 (853400-1)..... **$43.35**
No. 104TE4008 (853400-8)..... **$43.35**
No. 104TE6513 (853400-3)..... **$43.35**
No. 104ST753 (853400-6)..... **$43.35**

AMP Modular Plug Stripper/Crimper Kits

Designed for Telco, Lan, Wan and other Professional Installers. **Kit includes:** Carrying Case with Frame, 4, 6 and 8 position Die Sets, Set of Replacement Strip Blades and Small Screwdriver. **(USA)**
No. 104ST666..... **$228.00**
Kit includes: 8-Position Plug Hand Tool; 4-6-Position (RJ 11/12) Plug Die Set; 8 position (RJ45) one set. 4-position handset plug Die Set. **(USA)**
No. 104ST668 ..... **$294.85**
Optional: 5 Cutter/5 Sets of Strip Blades Replacement Kit
No. 104ST662..... **$38.20**

AMP Pro-Crimper II® Kits

BNC Premise Wiring Kit
Includes: Hand tool, plugs - five RG58, 10 RG59/62, five RG58 plenum and RG59/62 sizes; Adapters: two jack-to-jack and two "T"; and case.
No. 104LA477 ..... **$175.10**



AMP

PIDG® and Plasti-Grip® Terminal Kit
Includes : Hand Tool, 225 Ring and Spade terminals in 12-10, 16-14 and 22-16 wire sizes; and case.
No. 104LA823 .. **$127.50**

AMP Modular Telco Plugs

True mass termination of jacketed cable with tinsel, solid or stranded conductors. Available for round and flat-oval cable. One-piece construction with preloaded contacts. FCC and Telco standard size and performance. Selectively gold-plated contacts. 100 per box.

4-Position Handset
No. 104AC334.... **$16.00**

6-Position Solid Wire
No. 104AC042 .. **$22.85**

4-Position Line
No. 104AC335 .. **$16.00**

8-Position Line
No. 104AC739 .. **$37.00**

6-Position Round Cable
No. 104AC710 .. **$21.30**

8-Position Round Cable
No. 104AC169.... **$37.00**

8-Position Solid Wire
No. 104AC720 .. **$39.65**

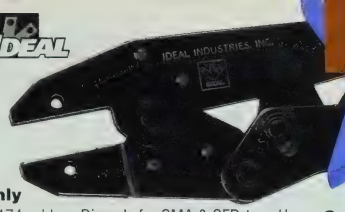
Modular Plug Economy Handtool

A lightweight, low-cost hand tool that strips and terminates cable. Terminates 2-, 4- and 6-Position Plugs. **(USA)**
No. 104TE648 ..... **$27.75**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Ideal Crimpmaster™

For plant maintenance, field service, LAN installers and small production runs. A full-cycle, compound leverage, triple ratchet tool. The frames are made of high-grade, stamped hardened steel. The crimp dies are dual-nest, precision die-cast and hardened. Ergonomic handles are designed for comfort. Crimp tool frame only.
No. 462ST506 ..... **$39.95**



To Order a Crimpmaster™

1. Select the die of your choice
2. Add the frame
All dies are interchangeable.

Replacement Dies – Only

Die only for 22-10 AWG fully insulated slide on connectors.
No. 462ST594 ..... **$22.95**

Die only for 22-12 AWG non insulated open barrel crimp connectors.
No. 462ST586 ..... **$22.95**

Die only for N-Series PRG-8/11 connectors. (Hex 0.429; 0.100; 0.080)
No. 462ST577 ..... **$22.95**

Die only for RG-9, Belden 8281 & RG-6 cable, 50 & 75Ω.
No. 462ST578 ..... **$22.95**

Die only for RG-58, RG-174 cable 50 & 75Ω.
No. 462ST587 ..... **$22.95**

Die only for RG-174 Mini-59 Hex BNC/TNC coax connector.
No. 462ST576 ..... **$22.95**

Die only for 16-26 AWG miniature insulated rings.
No. 462ST572 ..... **$22.95**

Die only for 22-10 AWG insulated ring tongue terminals.
No. 462ST579 ..... **$22.95**

Die only for SMA & SFR-type Hex fiber optic connectors.
No. 462ST596 ..... **$22.95**

Die only for 22-8 AWG non-insulated terminals.
No. 462ST580 ..... **$22.95**

Die only for RG-58, RG-59/62 AU BNC/TNC 3-piece hex type connectors.
No. 462PA581 ..... **$22.95**

Die only for CATV RG-59 & RG-6 captive ring "F" type connectors.
No. 462ST582 ..... **$22.95**

Crimpmaster™ Frame & Die Set

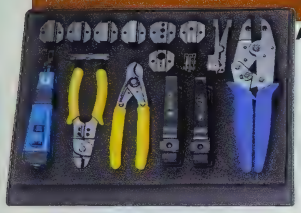
Frame with 22-10 AWG die for insulated ring tongue terminals.
No. 462ST500 ..... **$56.90**

Frame with 22-8 AWG die for non-insulated terminals.
No. 462ST501 ..... **$56.90**

Frame with RG-58, RG-59/62 AU BNC/TNC 3 piece hex type connector die.
No. 462ST502 ..... **$56.90**

Frame with CATV RG-59 & RG-6 captive ring "F" connector die.
No. 462ST503 ..... **$56.85**

Ideal Coax and Cable Termination Kits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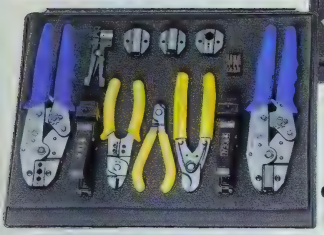
B


C

Each kit contains a Crimpmaster ratchet crimp tool frame with a selected die set or TelCom Crimp Tool to accomplish your job or RJ-45 Kit.

D

E

F

G

H

A. Master Twisted Pair/Coax Termination Kit

Includes: a punch-down tool with 66 blade, 110 blade, Crimpmaster™ frame; Die Sets: RJ-11, RJ-11 DEC, RJ-45, RJ-45 AMP, N-Series die, RG-58, RG-59 and RG-62 BNC; round thin wire die set; round cable cutter, line cord stripper, two coax strippers and a replacement cassette.
No. 462TE806 ..... **$461.45**

B. CrimpMaster™ 10-Base-T RJ-45 Crimp Kit

Includes: one each: telcom crimp frame; RJ-45 keyed and non-keyed die set: round coax cable cutter; twisted-pair coax cable stripper; plus 200 each RJ-45 eight-position, round, solid modular plugs housed in a case.
No. 462PL652..... **$206.80**

C. Twisted Pair/Coax Termination Kit

Includes: Crimpmaster™ RG-58/RG-59BNC tool, Crimpmaster™ RJ-45 tool, RJ-11 die set, RJ-45 AMP die set, N-Series die, round cable cutter, line cord stripper, UTP stripper, two coax strippers, a center conductor cutter and a replacement cassette.
No. 462PR807 ..... **$350.00**

D. Economy 10-Base-T Kit

Includes: One RJ-11/45 Telemaster TelCom Crimper; one Cyclops twisted pair cable & coax wire stripper; 50 each RJ-45 eight-position modular plugs; case.
No. 702TE006..... **$95.45**

E. CATV "F" Connector Kit

Includes: Crimpmaster Tool; Coax Cable Stripper; 20 each RG-59 & RG-6 captive ring connectors; case.
No. 462PR402 ..... **$99.70**

F. RJ-45/11 Combo TelCom Kit

Includes: RJ-45/11 combination TelCom Crimp Tool for keyed and non-keyed RJ-45 plugs with built-in cut and strip blades; 15 each four- and six-position RJ-11 mod. plugs, and eight-position RJ-45 mod. plugs; case.
No. 702TE704 ..... **$63.60**

G. RG-58/59/62 Crimpmaster™ Coax Crimp Kit

Includes: one RG-58/59/62 Crimp Tool,one Coax Strip-per, 10 each RG-58 Male BNC's, 10 each RG-59 Male BNC's, five each RG-58 and RG-59 Blue Strain Relief Boots, five each RG-59 and RG-58 Black Strain Relief Boots and case.
No. 462ST303 ..... **$123.00**

H. Deluxe Crimpmaster™ Coax Crimp Kit

Includes: one each: Crimpmaster™ crimp tool frame; coax stripper with black cassette; replacement brown cassette; RG-58 and RG-59/62 BNC die set; RG-59, RG-6/RG-8281 BNC die set; RG-58/RG-174 die set; RG-8/11 Ethernet Die Set; RG-58/RG-59 Plenum die set; thinwire die set; and a case.
No. 702ST095 ..... **$222.75**

Sargent Ratcheting Terminal Crimping Tools

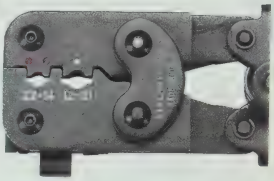
Open Barrel Contact Crimp Tools

Crimps a wide range of commercial open-barrel contacts. Crimps are "F" type 14-24 AWG and are produced in three cavities: C 14-16 AWG: D 18-20 AWG and E 22-24 AWG. Insulation crimps are "F" type and are produced in two cavities: A 14-18 AWG and B 20-24 AWG. 8" OAL. Cushion grips. **(USA)**
No. 694ST128 ..... **$25.00**

Crimps open-barrel d-subminiature pin and socket contacts 18-30 AWG. and insulated types with one closure. A locator and wire stop is provided to properly orient the contact. Conductor crimps are"B" type, insulation crimps are "oval" type and are produced in two cavities: 20-24 AWG and 26-30 AWG. 8-1/4" OAL. Cushion grips. **(USA)**
No. 694ST127..... **$38.00**

Crimps open-barrel d-subminiature pin and socket contacts. Conductor and insulation portion of contacts are "oval" type,in separate cavities. 16-20 AWG. Crimps are"F" type and are produced in three cavities: C 16-18 AWG. D 20-22 AWG and E 24-30 AWG. Cushion grips. **(USA)**
No. 694ST126 ..... **$25.00**

2 Cavity Full Cycle Insulated



Crimp conductors and strain relief portion of insulated terminals for consistent. reliable terminations. Crimp red and blue insulated terminals and splices wire sizes 22-14 in front cavity. Crimp yellow insulated terminals and splices wire sizes 12-10 in rear cavity.
No. 694ST014 9" OAL **$97.50**
No. 694ST016 11-1/4" OAL.. **$145.00**

3 Cavity Full Cycle Insulated

Crimp insulated terminals and splice wire sizes 22-18 AWG. in front cavity; 16-14 AWG. in middle cavity; 12-10 AWG. in rear cavity. 9" OAL.
No. 694ST010 ..... **$62.50**

5 Cavity Non-Insulated

Full-cycle tool. Wire AWG 16-30. Three nests for crimping conductor: two marked nests for insulation crimping. 9" OAL.
No. 694ST012 .... **$80.00**

Full Cycle Non-Insulated

Five-cavity tool designed to crimp non-insulated terminals and connectors. Three nests for crimping on the conductor and two nests for insulation crimping. Capacity: Crimps "F" type non-insulated terminals 14-24 AWG. 9" OAL
No. 694ST026 ..... **$80.00**

TYCO Crimp Tool

D-Subminiature Contact Crimping Tool

Crimps 30-20 AWG contacts. Ratchet-release lever contact locaters hold pin for easy wire insertion, assures proper termination. 9" OAL. **(USA)**
No. 104ST312 ..... **$115.00**

Ideal Crimp Tools

Telemaster Economy Telcom Crimp Tools

Professional, economy Telcom Crimp Tool for any modular plug application. Each tool has a built-in cut and strip blade.
No. 702ST301 (RJ45/RJ11) **$41.15**
No. 702ST019 (RJ11/RJ22) **$41.15**

Ratchet Telemaster

Professional ratchet features a repeatable crimp action for consistent, high-quality connections that cuts and strips flat satin cable. Has dual crimp cavities for RJ-45 and RJ-11 modular plugs.
No. 462PR696 ..... **$49.95**

Paladin Tools

All-In-One Telephone Tool

Stewart-Stamping-Style/WE-Style modular plugs. Cuts and strips telephone cable. **Features:** RJ11, 2, 4 and 6 position and RJ45 8 position, a fully-ratcheting cycle and a built-in ratchet safety release.
No. 618PR545 ..... **$39.70**

Paladin Tools®

All-In-One Telephone Tool

This versatile tool combines all the necessary tools to cut, strip and crimp modular telephone wires and plugs. Will cut and strip flat line cord cable up to 8 conductors wide. Crimps most 4-position handsets, 6-position RJ11 line cord, and 8-position RJ45 plugs with no die change.
No. 618TE530 ..... **$120.00**

Cablematic

For CATV, Electronics & Fiber Optic Installers, choose this one-hand use easy to operate crimp tools. Each head is designed to eliminate over-crimp. Easy-to-read hex sizes stamped on head. 9" OAL. **(USA)** ***(Additional sizes available – Call!)***

CR Hex Crimp Tools for CATV/MATV/STV Cables

TT No.	# Compartments	Hex Sizes Inch	Contact Hex Inch	PRICE
680TE050	2	.324/.262	– –	$29.50
680PR596	2	.360/.324	– –	$33.45
680ST611	3	.475/.360	.096 –	$41.20
Fiber Optic Cables		.213. .178.		
680PR597	4	.151. .128	Full Cycle Operation	$51.60

TECHNI-TOOL
Phone: 1-800-832-486
or 1-610-941-2400

Sargent Crimp Tool

O.E.M. Crimp Tools

Conform to O.E.M. specs with this conductor and insulation crimp that is produced into one tool closure. **(USA)**

Crimps .093 power connector pins and sockets. (Ref: Molex 1031E). The conductor and insulation crimps are "F" type which are produced in two cavities: 24-20 AWG and 18 AWG. Includes wire stop.
No. 694PR132 ..... **$99.00**

Crimps .062 power connector pins and sockets. (Ref: Molex 1719C). The conductor and insulation crimps are "F" type which are produced in two cavities: 24-20 AWG and 18 AWG.
No. 694PR133 ..... **$99.00**

Crimps .100 Interconnection System crimp terminals. (Ref: Molex 2262A). The conductor and insulation crimps are "F" type which are produced in two cavities: 26-22 AWG and 30-24 AWG.
No. 694PR135 ..... **$99.00**

Crimps .156 Interconnection System crimp terminals. (Ref: Molex 2445A). The conductor and insulation crimps are "F" type which are produced in two cavities: 26-22 AWG and 30-24 AWG. Includes wire stop.
No. 694PR136 ..... **$99.00**

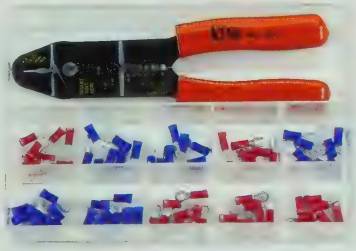
Crimps commercial grade butt splices. (Ref: Raychem AD 1377). Crimps are produced in three cavities: 26-20 AWG, 20-16 AWG and 16-12 AWG.
No. 694PR137 ..... **$99.00**

Terminal Kits

Combo Non-Insulated and Insulated-Terminal Kit - 550 pc

Contains: 20 of the most popular electrical connectors.
Includes: crimp tool, 550-terminals and deluxe heavy-duty case.
No. 490ST401 .... **$112.70**

Insulated Terminal Kit - 81 pc



Includes ten assorted, single-grip, insulated-terminal styles for radio, TV and general purpose.
Contains: crimp tool with bolt cutter; 80 total terminals: six varieties ring-tongue; four different spade-tongue. All contained in a ten-compartment box.
No. 828ST175 .. **$32.95**

Electrical Connector Kit - 360 pc

Kit includes: 22-16ga. butt red; 18-22 splicer red; 18-14ga. splicer blue; 16-14 female bullet blue, ring #10 blue, ring 1/4" blue, ring 3/8" blue, spade blue, female quick blue, male bullet blue, butt blue, and male quick blue; 10-12ga. butt yellow, ring #10 yellow, ring 1/4" yellow, ring 3/8" yellow, and spade yellow. **(USA)**
No. 449PR360 ..... **$34.00**
Electrical Connector Kit - 175 pc
No. 449PR175 ..... **$17.00**

3M Scotchlok Insulated Terminal Kit

3M

This kit contains an assortment of our most popular terminals for wire sizes 12 to 22 AWG. We have added cable ties, wire markers and dispenser, a crimping tool, and a reusable metal storage box.
Includes: 650 terminals, 200 ties, wire markers & box.
No. 105PR923 ..... **$119.00**

Telco, LAN/WAN Installation Kits

A

B

Paladin Tools®

C

Paladin Tools®

New!

Each kit is specially designed and configured for specific TELCO, LAN/ WAN and Category 5 applications.

A. Strip/Crimp/Punch-Down Kit
Kit includes: Stripax Professional to strip 10-28 AWG cable; Crimper Frame, seven interchangeable Die Sets: RJ11, RJ45, Handset, RJ45 AMP, RJ11 AMP, RJ11 DEC, RJ45 10 Position: Punch-Down Tool-66 & Punch-Down Blade-110. Padded ABS carrying case included.
No. 618TE582..... **$249.55**

B. UTP Solid & Stranded Wire Kit
Kit includes: Cable Cutter to cut RJ11 & RJ45 cable; Stripax Pro to strip 10-28 AWG cable; Crimper Frame; RJ45 & RJ11 Die Sets; 30 RJ11 Connectors; 15 RJ45 Connectors; 15 RJ45 Connectors for solid wire. Patch Check with 9V battery. Padded ABS carrying case included.
No. 618TE587 ..... **$231.75**

C. DataReady™ Kit
This kit includes everything you need for a CAT-5 installation except the cable, in a zippered case. **Kit includes**: telephone crimp tool for RJ45 and RJ11; Impact punch-down tool with 110 and 66 blades; continuity tester; category 5 RJ45 connectors (20) and case. ***One-Year Warranty.*** **(USA)**
No. 618AC053 ..... **$175.90**

TECHNI-TOOL
Fax: 1-800-854-8665

Master Tool Kit - 25 pc
25 alignment and adjustment tools.
No. 388PR046 $43.90

JONARD Lamp Extractor
Firmly and gently grasps miniature lamps with bayonet-type bases. 4" OAL, with 1/2" diameter handle. Lamp grasp is limited to 3/8" to prevent shorts. *WECO 553A.*
No. 594TE170 ..... **$10.80**

Trimming Tool Set - 10 pc
A tool for all applications for trimmer adjustments. Set includes square tips, hex tips, different size screwdriver blades and recessed blades. Manufactured with tough celcon material.
No. 648PR910 ..... **$7.70**

Steel Tip Dual Alignment Tool
Recessed steel tip one end, protruding steel tip on the other. Tool shaft dia. 7/32" (5.5mm). The recessed tip fits a No. 6 slotted shaft common to many I.F. transformers. The protruding tip is .130" wide and protrudes .190".
No. 388PR042 ..... **$3.15**

Tec Alignment Tools
11" double hex, one side recessed, Delrin .100.
NSN# 5120-00-724-3767

A. No. 654PR034 ..... **$.80**
6" insert/extended metal tab sides, Tenite
B. No. 654TE012 ..... **$1.05**
6" double screwdriver/servicing tool
C. No. 654SC018 ..... **$.75**
5-3/4" nylon screwdriver
D. No. 654PR014 ..... **$.70**
5" Double ended trimpot. .050" hex alloy and 3/32" wide steel screwdriver tip
E. No. 479PR607 ..... **$1.45**

Non-Conductive Alignment Tools Set - 5 pc
Includes: a 2-in-1, non-conductive alignment tool with a step down on one end; a spudger with a double-ended (5/16" dia. x 5-1/2"L), pencil-type, tapered cone on one end and a screwdriver tip on the other; a trimpot, a double-ended alignment tool with a hex (Allen) steel 0.050" and a 3/32" wide steel screwdriver tip and nylon probe with "L" shaped wire hook extension on one end and 3/16" wide and 1/16" thick flat end with 2 small notches and orange wood stick 3/16" dia. x 7" long. **(USA)**
No. 479PR004 ..... **$4.85**

Tech's Alignment Kit - 4 pc
A general purpose kit containing four tools with a variety of needed tips. Includes tools for most common ferrite core adjustments used in today's circuits. **Contains**: Double Ended Hex Tool 0.10" x .087" & .078"; Alignment tool: Square .060", Hex .010" and Blade; Double Hex Alignment Tool.
No. 648PR420 ..... **$4.60**

TV Alignment Set - 6 pc
Kit contains the five most commonly needed tools for television service. **Includes**: Double Hex Aligner .078"; Screwdriver - Hex Combo Tool .092" & .078"; Special Hex-Tip Tool 0.10"; Double End Hex Tool .125"; Extender.
No. 648PR8454 ..... **$6.90**

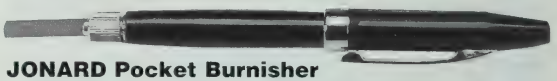
All-Purpose Alignment Tool/Service Aid Kit
Selection of popular TV alignment tools and service aids, all in one attractive, durable plastic roll-up case.

Stores easily in service kit. **Kit contains:** K-Tran Tool, Core Aligner, Duplex Aligner, "Shorty" Aligner, Hex Wrench 5", Screwdriver 16", Screwdriver, Zenith Alignment Tool, Brush/Forked Tip Tool, TV Aligner, Hex Wrench Core Tool and Hex Alignment Tool.
No. 388PR5040 ..... **$22.70**

Booth Wrench
Designed to fit 5/32" security tamper-proof pin-in-head Hex fasteners. 8" OAL.
No. 188SC022 ..... **$5.80**

Pedestal Tool
5/32" Hex end is designed to fit telephone peds and boxes. 9-3/4" OAL. **(USA)**
No. 355TL028 ..... **$11.25**

Deep Chassis BNC Connector/Removal Tool
For easy access to high-density locations of connectors.
No. 702SC007 8" Blade; 12" OAL **$22.75**
No. 702SC008 12" Blade; 16" OAL. **$22.75**



JONARD Pocket Burnisher
Handy, with practical pocket clip, magazine of extra blades. The blade length and rigidity set by varying depth of blade in chuck. 4-1/2" long x 3/8" dia. Blades are 3/16" wide & 1-1/2" long. Blades are replaceable. **(USA)**
Contact Burnisher with six 0.007" thick blades
No. 594TE030 ..... **$16.25**
No. 594TE010 6 blades, .0035" thick **$13.80**
Weco #265C Pen Plus 6 Abrasive rods
No. 479PR265 ..... **$18.80**
.007" Blades for No. 594TE030 (25/Pk.)
No. 479PR266 0.0035" blades (25/Pk.) **$13.80**

Cleans All Relays And Contacts!
Diamond Spatula - 3 pc
These spatulas consist of diamond particles which clean effectively with a gentle touch. This removes very little material (about one micron) and leaves the normal gap unchanged. The color-coded nylon shaft provides flexibility for hard-to-reach areas and provides insulation that permits use of the Diacrom when the relay is under power. Assorted set of three. One each: Fine, Medium, and Coarse.
No. 729FI010 ..... **$79.80**

Telco Probe
The point is used to locate a wire lead, the hook to pull the lead, the notch in the tip to form or reform the wire harness. Made of tough nylon with glass fibers, with a clip for your pocket or pouch.
No. 461PL630 For all communication wiring .. **$.70**
No. 461PL163 For 28 AWG. wire or smaller.... **$.70**

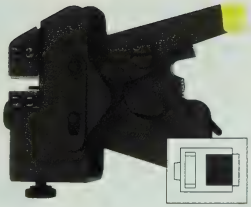
Miniature Potentiometer-Trimmer Adjustment Tool
Nylon adjustment tool has a 1/4" dia. shaft. One end has a 0.085" wide steel tip, the other is 0.085" wide, but the steel tip is recessed .040".

Includes pocket clip. 4-15/16" OAL.
No. 388PR608 ..... **$1.90**

Anti-Static Black. 4-15/16" OAL.
No. 388SC8608 ..... **$2.50**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

7500 Series Modular Plug Tools



Provide easy access for cutting and stripping functions with the 7500 series modular plug tools. Compound action produces high crimping forces with minimal user effort. It's full-cycle action assures consistent termination, and the release lever prevents faulty crimps. **Features:** color-coded dies for RJ45 & 10-position plugs; strip length gages; replaceable cutter and stripper; interchangeable die sets are keyed together to guarantee perfect alignment. **(USA)**

7100 Frame holds 7500-Series Dies
No. 694PR711 ..... **$65.50**

7508CT Crimp Tool
No. 694PR508 ..... **$99.75**

10 Position Die Set
No. 694PR010 ..... **$27.50**

RJ45 8 Position Die Set
No. 694ST7108 ..... **$27.50**

Kit Frame/4Dies/Case
No. 694PR750 ..... **$199.00**

Tec-Cut 6500 Series Thrift Crimp Tools

These cost-efficient tools are precision manufactured to produce crimps to industry standards. These tools feature: full-cycle ratchet that assures consistent termination; the ratchet release mechanism is easily accessible; and crimp cavities produce crimps to industry standards; die sets are easily interchanged with a screw driver. **(USA)**

No.694PR650 Frame Only **$27.50**

Crimps non-insulated terminals and splices to metric standards. Crimps are produced in four cavities: 0,5-1, 55 mm2, 1,5-2, 5mm2, 4, 0-6, 0 mm2 and 10,00 mm2 (22-8 AWG).
No. 694PR651 ..... **$15.00**

Crimps a wide variety of open barrel contacts in medium to large size wires in one tool closure. Crimps are "B" type and are produced in three cavities: (A) 22-18 AWG, (B) 16-14 AWG and (C) 12-10 AWG.
No. 694PR652 ..... **$15.00**

Crimps conductor and strain relief portion of insulated terminals and splices in one tool closure. Crimps are produced in three cavities: RED 22-16 AWG, BLUE 16-14 AWG and YELLOW 12-10 AWG.
No. 694PR653 ..... **$15.00**

Rotatable Crimp Tool

New!

Designed with long ergonomic handles to terminate copper power compression connectors on wire sizes 2, 4, 6 and 8 AWG. The rotatable crimp die cavity is color coded to industry standards, Red-8, Blue-6, and Brown-2. A fast pin is provided to orient the die agter proper selection is made. Each copper power connector must be crimped a minimum of two times for short barrels and three times for long barrels. 10-3/4" OAL. **(USA)**

No. 694PR290 ..... **$110.00**

Mini Crimper

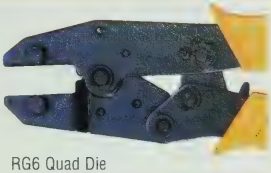
The Mini Crimper ergonomically designed 15° angle head is for easy crimping of RG 58/59 insulated terminals and splices. Integral dies given an electrical and mechanical crimp simultaneously.
No. 618ST012 ..... ~~$125.00~~ **SALES $99.90**

SealTite™ - 59/6 Crimp Tool

Perform snap crimping of waterproof CATV "F" connectors for RG59 and RG6 75Ω coaxial cables; Augat/T & B Snap-N-Seal™; AIM CATV "F" waterproof connectors and Paladin SealTite™ connectors; Fully ratcheting one-cycle crimp function. ***One-Year Warranty.***
No. 618TE024 ..... **$45.00**

1300 Series Crimp Tool

New!



Versatile crimping system with interchangeable die sets. **Includes:** quick change E71-CHANGE die screws with fully-ratcheting action. (Frame Only)
No. 618PR302 ..... **$33.35**

Coax Die Set - CATV "F"
No. 618PR257 ..... **$21.25**

HDTV Die Set - BNC/TNC/CATV "F"
No. 618PR260 ..... **$21.25**

SMA, True 75Ω
No. 618PR261 ..... **$21.25**

RG6 Quad Die
No. 618PR259 ..... **$21.25**

G58/6 Amphenol/King/AIM (hex .320" / .210" / .185")
No. 618PR258 ..... **$21.25**

All-In-One Terminating Tool

All-in-One RJ 45/RJ11 Telephone Tool cuts, strips & terminates cable for 4, 6, and 8 position modular plugs. (Taiwan)
No. 618PR264 ..... **$39.70**

KT 45 Precision Cutter

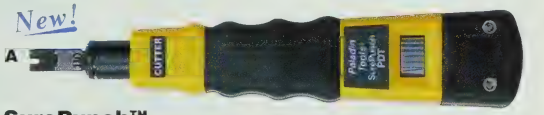
New!

This precision cutter is designed for solid, stranded and flexible cables up to 600 MCM. Features powerful, smooth ratcheting, one-hand operation with hardened steel blades, safety release and precision ratcheting. **(USA)**
No. 618PL257 ..... **$260.70**

KT 35 Precision Cutter

This precision cutter is designed for solid, stranded and flexible cables up to 500 MCM. Features smooth, ratcheting, one-hand operation with hardened steel blades, safety release and precision ratcheting. **(USA)**
No. 618PL256 ..... **$143.20**

New!



SurePunch™ Punchdown Tool

Paladin Tools®

Terminate and cut telephone wire and data cable with the SurePunch™ and a 66/110 blade. Designed with a rubber embedded cushion grip, molded to the shape of your hand. Features adjustable, spring compression, increased HI/LO impact force, and blades that twist and lock into place. ***One-Year Warranty.*** (Taiwan)

A. No. 618PR263 Tool and blade **$54.15**

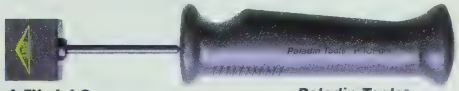
SurePunch 110/66 combination cut-only blade
B. No. 618PR571 ..... **$15.10**

SurePunch 110 reversible blade
C. No. 618PR572 ..... **$15.10**

SurePunch 66 reversible blade
D. No. 618PR573 .. **$15.10**

SurePunch BIX cut-only blade
E. No. 618PR574 .. **$26.15**

New!



Paladin Tools®

ProPunch™ 110 Multi-Pair Punchdown Tool

Terminate and cut up to five pairs of data/voice cable at the same time with the ProPunch™. Designed to perform over 30,000 cycle punches and terminate most AWG 23 cable pairs in one punch. The rugged "no-slip" handle fits comfortably in your hand with the handle end contoured to the heel of your hand to absorb punch recoil. Works with CAT 6 AWG 23 cable, no tool upgrade necessary.(Taiwan)

ProPunch 110 with 5-pair head
No. 618PR560 ..... **$99.95**

ProPunch 5-pair replacement head with blade cassette
No. 618PR460 ..... **$37.00**

Safe-T-Grip® Fuse Puller

No slip! Formed to fit the fingers. Assures a positive, full grip. **(USA)**

Midget Fuse Puller: Use for 9/32" to 1/2" dia. fuses.
No. 462MI010 5" OAL (Shown) **$5.85**

Pocket Fuse Puller: 0-100 Amp.
No. 462MI012 7-1/2" OAL **$9.90**

Giant Fuse Puller: 100 to 600 Amp.
No. 462MI014 12" OAL **$21.75**

WS 62 Adjustable Outer Jacket End Stripper

Perfect for working on multiple smaller wire O.D.'s and insulation thicknesses common in secondary voltage applications and common insulation on smaller URD cables. Quickly and easily adjusts to cable size with spring loaded "trigger-action" jaw. Micro adjustable blade allows accurate setup for a variety of insulation thicknesses. also design allows quick and efficient jacket removal. For cable sizes from 1/2" up to 1-1/2" O.D. (12.7 to 38.1mm). 8" OAL. **(USA)**

No. 680PL562 ..... **$180.00**

WS 64 Adjustable Outer Jacket End Stripper
No. 680PL564 ..... **$261.00**

CAT Compression Tool

Your ergonomic, cable compression assembly tool provides a clear view of the connector-assembly compression action. Spring-loaded, split jaws position cable and connector for easy insertion and removal. **(USA)**

Complete Tool & Die Sets
CMP/Production Products Company.
Cable Series 6 & 59. Black
No. 680TL001 ..... **$61.50**

EZF®/Raychem, Cable Series 6 & 59
(factory set for Series 6 EZF® connectors and includes a gage block for Series 59 EZF® connectors), 6/Blue and 59/Red
No. 680TL002 ..... **$61.50**

F-Connector Torque Wrench

This extended, angled-head Torque Wrench allows you to access confined applications. Assures you proper connections at the F-connector interface Factory-preset setting. 20 & 30 in.-lb. Tap port rethreader. 6-1/2" OAL. **(USA)**

No. 680SC020 20lb-in ..... **$47.95** **No. 680SC030** 30lb-in **$47.95**

Can Socket Wrench

New!

These double end can socket wrench 3/8" and 7/16" hex, are designed with an orange handle in either standard or ergonomic design. The walls on both sockets are thin enough so they can be used to work locking devices on most terminals and cabinets. 7" OAL.

Ergonomic 1" Dia. Handle. Round Outer Socket
No. 479SC216 ..... **$13.25**

Standard Handle. Round Outer Socket
No. 479SC217 ..... **$8.45**

Standard Handle. Hex Outer Socket
No. 479SC218 ..... **$13.25**

Can wrench/stripper for 22/4 and 24/4-telephone cable
Hex sockets on ends of tool in 3/8" & 7/16" sizes
No. 618WR900 ..... **$15.60**

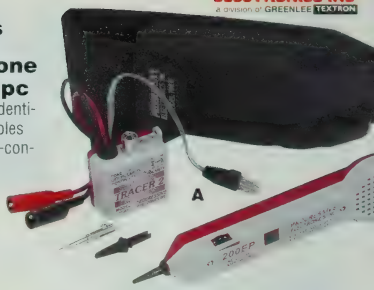
Dropwire Can Wrench Slitter

It's a dropwire slitter, a standard nut driver, a security wrench, a wire stripper. Complete your telco wire job fast! Includes security tool. Equipped with 3/8" and 7/16" deep socket nut drivers. Color: Safety orange. **(USA)**

No. 874ST216 24 AWG Stripper **$25.50**

Tone/Probe Kits

701K Classic Tone & Probe Kit - 3 pc

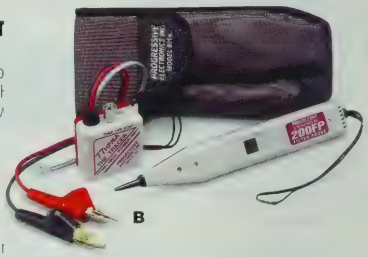


The 701K can be used to identify single conductors or cables within a bundle, at a cross-connect point or at remote ends. Contains: 77HP high power tone generator, 200EP inductive amplifier with volume control; and carrying case. **(USA)**

A. No. 666TE701 Kit **$99.75**
No. 666TE200 Filter Probe only **$114.50**

77HP Tone Generator Only
No. 666TE077 ..... **$32.00**

801K Premium T & Probe Kit



The ultimate in wire and cab tification. Containing the 77I high power tone generator v bent nose piercing clips. increased talk battery supply and higher voltage protection, as well as the 200FP filter probe to filter out all that AC hum. the 801K offers all the featu professionals are looking for a tone/probe kit. **(USA)**

B. No. 666TE801 Kit **$134.50**

77 HP Tone Generator Only
No. 666TE776 ..... **$36.75**

200B and 200EP Inductive Amplifiers

Used in conjunction with any tone generator, the units permit wire and cable identification without having to make direct metallic contact with the conductor. Powerful receiver gain permits accurate identification in even the most congested cable bundles and equipment rooms. The 200EP offers adjustable volume control for more precise identification when tone signal "bleed" is affecting the identification process. Additional, the 200EP includes recessed tabs for buttset or headset connection that, when connected, bypass the probe's speaker. **Specs:** Power requirements: one 9V battery; Probe Tip Resistance: metal 0Ω plastic 300Ω minimum; Gain: 26dB; Input Impedance: 100MΩ. **(USA)**

200EP (Not Shown)
Includes spare duckbill and metal tip.
No. 666TE225 ..... **$59.50**
No. 666TE888 RPT-1 Replacement Plastic Tips **$4.60**
No. 666TI200 RMT-1 Replacement Metal Tips **$4.60**
No. 666TE777 RPC Replacement Piecing Clips **$12.50**

Leather Belt Holsters

These rugged, heavy-duty belt holsters are made of 100% top grain leather. **(USA)**

No. 666TE016 Fits any 200 series inductive amplifier **$6.90**
No. 666TE018 Fits the larger 600LS test sets **$8.70**
No. 666TE012 Fits Models 620 and 100B testers **$6.90**
No. 666TE770 Fits any 77 Series tone generator **$6.90**

Cable Sheath Stripper

Strips jacket from all sizes of plastic and fabric covered cable. Blade has "L" shaped hardened steel guide and blade guard. Hand is fully protected. Blade may be reversed for new edge. Two extra blades in handle slot under name plate. Size 6"L x 3"W. Wt.: 4-1/4 oz.

No. 594TE078 Cable sheath stripper **$34.70**
No. 594TE080 Blade guide retainer **$7.75**
No. 594TE082 Package of six extra blades **$1.70**

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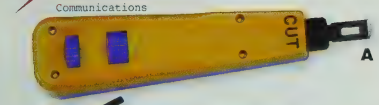


A

B

C

D814 Automatic Impact Tool

Interchangeable blades for use on different terminal blocks. One blade may be used while another is safely stored away in the tool handle. Automatically triggered with a simple push, the spring loaded mechanism will trigger the blade, providing just the right amount of impact to seat and/or cut the wire properly. The result is a more precise, consistent termination. Adjustable impact wheel can be set at either high or low depending on termination. *Lifetime Warranty.* **(USA)**

A. No. 300PR012 D814-66 Impact Tool complete with 66 Blades **$58.00**
No. 300PR010 D814 Impact Tool (Handle only) **$52.50**

D914 Automatic Impact Tool

Combination impact and torque tool designed to meet your wire termination requirements. The handle accommodates a variety of interchangeable termination blades. Simply change blade and you have another tool. Use for 110, Krone, BIX and 66 Blocks. Exceeds AT&T specs. *Lifetime Warranty.* **(USA)**

B. No. 300TE202 Tool with screwdriver blade **$62.50**
No. 300SC914 Tool with 66 & 110 blade **$80.00**
No. 300PR100 Tool with 66 blades **$62.50**

300SC914
300PR100

D214™ Non-Impact Punchdown Tool

Constructed of durable hard rubber, the tool features a one-piece ergonomically designed handle with a convenient storage space for an extra blade. Works with all Harris' industry standard blades. **(USA)**

C. No. 300PR105 D214 Non-Impact Tool Handle..... **$22.00**
No. 300PR106 D214 w/66 Blade **$27.50**
No. 300PR107 (10050-110) D214 w/110 Blade..... **$27.50**

Termination Blades

PM Blade for GTE PhoneMart®.
No. 300PR016 ..... **$37.50**

630 Blade 630A modular phone jacks.
No. 300PR030 ..... **$19.00**

Dually™ Blade
Terminates on both Krone and 110-type terminations.
No. 300AC565 ..... **$57.00**

BIX® Blade Northern Telecom BIX System.
No. 300PR665 ..... **$41.50**

66 Blade for 66 blocks.
No. 300PR014..... **$20.00**

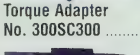
88/110 Blade for 110 and 88 blocks.
No. 300PR032..... **$20.00**

5814 Combo jack
No. 300SC001..... **$37.50**

Krone Blade
No. 300PR565 ..... **$40.50**

D714 66 block replacement blade
No. 300PA401 ..... **$20.00**

Torque Adapter
No. 300SC300 ..... **$21.00**



Screw Driver
No. 300SC200 ..... **$21.00**

Extra-Long 66 Blades
8762D-66 Extra Long Loop
No. 300AC562..... **$39.50**

Extra-Long 66 Blades
8762D-66 Extra-Long Cutter
No. 300AC563..... **$39.50**

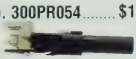
D714 Replacement 110/88 Blade
No. 300PR110 ..... **$20.00**

"D" Blade Kit

Store impact blades all together in one convenient hard case. Fits into shirt or pants pocket or tool pouch. The D-Blade case also comes in two kit packages. D66 blade kit includes two 66 blades, 630 blade & wood screw starter blade.

No. 300PR793 ..... **$61.50**
Two 110 blades, 66 blade & wood screw starter blade.
No. 300PR794 ..... **$61.50**
No. 300PR979 Case only **$7.50**

Start holes in wood, masonry, thin wall sheet metal.
No. 300PR054..... **$15.50**



3M System 'D' Bit.
No. 300PR651..... **$60.50**

Centerpunch
Designed to start holes in wood, masonry, plaster and metal.
No. 300PR034 ..... **$15.50**

Economy, Non-Impact, Turn-Lock™ Punchdown Tool

This simple punchdown tool features a durable rubber body and Turn-Lock™ style blade holder for 110 or 66 blades. (Uses Turn-Lock™ Blades only.) **(USA)**

No. 462PR492 (35-492) Non-Impact Tool with 110 Blade **$26.75**
No. 462PR493 (35-493) Non-Impact Tool with 66 Blade (Shown) **$26.75**

Ideal PunchGun™

Fast, easy terminations with the touch of a finger. Low recoil force and comfort hand pad reduces impact stress. Accommodates high-density cross connects, and features a 360° adjustable rotating head for blade positioning in 90° increments. Adjustable high/low setting can be changed to match specific termination requirements.

No. 462PR499 PunchGun™ Punch Down Tool **$179.95**
No. 462AC495 Turn-Lock™ 110 Blade only..... **$14.25**
No. 462AC497 Turn-Lock™ 66 Blade only..... **$14.25**
No. 462AC478 Turn-Lock™ Krone® Blade only..... **$51.45**
No. 462AC479 Turn-Lock™ BIX® Bade only **$51.45**
No. 462PR485 Punchmaster™ II Turn-Lock™ tool with 110 blade .. **$54.55**

For Large 11-type Installations.

PowerPunch™ Multi-Impact Tool

The *PowerPunch* tool quickly eliminates the repetitive strain and exertion associated with the use of hand tools. With the simple press of a trigger, terminate as many as five wire pairs at once—including the cable and cross-connect sides. **Features:** a flexible, 90° rotating head, a high-impact, double-insulated plastic body, a sliding trigger lock, an extension cord retainer and a snap-in, user-replaceable head housed in a rugged steel shell. **(USA)**

HARRIS Communications

PowerPunch Multi-Impact Tool
No. 300SC100..... **$230.00**
Replacement Multi-Head 110 Blades
No. 300SC301 ..... **$50.00**

Economy Punchdown Tool

Pocket-size tool with no-finger protector collar. Designed for terminating "66" Type connecting blocks. Double-ended tool steel blade. One end terminates and cuts, the other just terminates. (Imported)

No. 767TE714 ..... (1-3) **$19.95** (4-9) **$18.50**

HARRIS

Manufacturer Test Set Features	Harris TS22ALO	Harris TS22LO	Harris TS22AL	Harris TS22L	Harris TS22A	Harris TS22	Harris TS30
Tone and pulse operation	✓	✓	✓	✓	✓	✓	✓
Last number redial	✓	✓	✓	✓	✓	✓	✓
DTMF signal levels compensated for loop length	✓	✓	✓	✓	✓	✓	✓
Solid state circuitry	✓	✓	✓	✓	✓	✓	✓
Passes 20 foot drop test	✓	✓	✓	✓	✓	✓	✓
Spring-loaded belt clip & field replaceable	✓	✓	✓	✓	✓	✓	✓
Continuous polarity indication in talk mode	✓	✓	✓	✓	✓	✓	No
Polarity test button							✓
Data Lockout Protection	✓	✓	✓	✓	N/A	N/A	N/A
Meets all CCITT/ITU-TSS recommendations	✓	✓	✓	✓	✓	✓	✓
Rain safe in severe weather	✓	✓	✓	✓	✓	✓	✓
PBX pause button	✓	✓	✓	✓	✓	✓	No
Mute switch	✓	✓	✓	✓	✓	✓	✓
Amplified monitor speaker	✓	✓	✓	✓	✓	✓	No
9V battery for monitor speaker	✓	✓	✓	✓	✓	✓	No
Audible ringer for callbacks	✓	✓	✓	✓	✓	✓	✓
Speakerphone for true hands-free	✓	✓	✓	No	✓	No	No
Compensation circuit to reduce speaker phone noise	✓	No	✓	No	✓	No	No
High Impedance Monitor	✓	✓	✓	✓	✓	No	✓
Electronic Ringer	✓	✓	✓	✓	✓	✓	✓
Loop limit 2KΩ @ 48VDC (Minimum Loop Current)	20mA	20mA	20mA	20mA	20mA	20mA	17mA
Monitor mode impedance @ 1 KHz	>120kΩ	>120kΩ	>120kΩ	>120kΩ	>120kΩ	>120kΩ	120kΩ
Rotary dial output Pulsing rate 10pps ±0.5pps	✓	✓	✓	✓	✓	✓	✓
Percent break 61% ± 2%	✓	✓	✓	✓	✓	✓	✓
Interdigit Interval	1000ms	1000ms	1000ms	1000ms	1000ms	1000ms	1000ms
Leakage during break >50 KΩ	✓	✓	✓	✓	✓	✓	✓
Redial Memory Capacity	9-18 Digit	9-18 Digit	9-18 Digit	9-18 Digit	9-18 Digit	9-18 Digit	23 digit
Last number redial (LNR)	✓	✓	✓	✓	✓	✓	✓
Storage time	>3 yrs	>3 yrs	>3 yrs	>3 yrs	>3 yrs	>3 yrs	8 minutes
Operation Tone and Pulse	✓	✓	✓	✓	✓	✓	✓
PBX pause four seconds nominal	✓	✓	✓	✓	✓	✓	
Standard Piercing Pin Clips Cord	**300TE064 $514.00**	**300TE805 $426.50**	**300TE280 $498.00**	**300TL001 $410.00**	**N/A**	**300TE001 $273.50**	**N/A**
Ground Start Switch Cord	**300TE640 $514.00**	**300TE8051 $426.50**	**300PR804 $498.00**	**N/A**	**300TE017 $355.50**	**300TE007 $273.50**	**N/A**
Angled Bed of Nails Cord	**300TE046 $514.00**	**300TE8052 $426.50**	**300TE2280 $498.00**	**300TL009 $410.00**	**300TE1009 $355.50**	**300TE228 $273.50**	**300TE809 $202.50**

IS300 Deluxe Telecom Kit

Your deluxe, ready-to-use, Telecom Kit includes: D914™ impact tool; TS22® AL data lockout butt set with speakerphone and angled bed-of-nails clips; screwdriver blade; torque adapter; cable stripper; six wire banjo modular adapter; security key insert; D110 blade kit; can wrench; probepic 105-degree; and an IS series tool belt.

No. 300TE300 Medium belt **$711.00**
No. 300TE301 Large belt **$711.00**
No. 300TE302 X-Large belt **$711.00**

IS200Telecom Kit

Your ready-to-use Telecom Kit includes: D814 impact tool; TS30™ test set with angled bed-of-nails clips; cable stripper; six wire banjo modular adapter; security key insert; D110 blade kit; can wrench; probepic 105-degree; and an IS series tool belt.

No. 300TE200 Medium **$437.50**
No. 300TE201 Large **$437.50**
No. 300TE220 X-Large **$437.50**

ADSL / POTS Splitter

The ADSL/POTS Splitter is the first hand-held splitter in the field with bridging capability - it can troubleshoot the permanent-installed POTS splitter at the NID, and draw a dial tone from anywhere on the line without downing the ADSL service. The ADSL Splitter is tough, small and lightweight enough to be used every day by field technicians in conjunction with a butt-in test set. **Features:** Isolates POTS load impedance from the line to prevent attenuation and harmonic distortion of ADSL signal; Prevents ingress of ADSL signal into POTS service; **Specs:** Termination: Modular jack: RJ-14, Alligator Clip; Device Connection: voice end, modular jack, RJ-14, metallic contact; Data End: Modular jack: RJ-45, metallic contact. **(USA)**

No. 300PR102 ..... **$85.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

HARRIS Communications

Manufacturer	Harris TS17	Harris	Harris
Test Set Features	(Not Shown)	TS17 Deluxe	TS19
Tone and pulse operation	✓	✓	✓
Last number redial	N/A	✓	✓
DTMF signal levels compensated for loop length	✓	✓	✓
Solid state circuitry	✓	✓	✓
Passes 20 foot drop test	N/A	N/A	N/A
Replaceable spring-loaded belt	✓	✓	✓
Continuous polarity indication	✓	✓	✓
Polarity test button	N/A	N/A	N/A
Data Lockout Protection	N/A	N/A	N/A
Meets all Bellcore specifications	N/A	N/A	N/A
Rain safe in severe weather	N/A	N/A	N/A
PBX pause button	N/A	N/A	N/A
Mute switch	N/A	✓	N/A
Amplified monitor speaker	N/A	N/A	N/A
9V battery for monitor speaker	N/A	N/A	N/A
Audible ringer for callbacks	✓	✓	N/A
Speakerphone for true hands-free	N/A	N/A	N/A
Compensation circuit to reduce speaker phone noise	N/A	N/A	N/A
High Impedance Monitor	N/A	✓	✓
Electronic Ringer	N/A	N/A	
Loop limit 2KΩ @ 48VDC (Minimum Loop Current)	N/A	N/A	15mA
Monitor mode impedance @ 1 KHz	N/A	N/A	100kΩ
Rotary dial output Pulsing rate 10pps	✓	✓	✓
Percent break 61% ± 2%	60%+3%	60%+3%	✓
Interdigit Interval	800ms	800ms	950ms
Leakage during break >50 KΩ	>100kΩ	>100kΩ	✓
Redial Memory Capacity	No	31 Digit	28 Digit
Last number redial (LNR)	No	✓	✓
Storage time	No	10 minutes	15 minutes
Operation Tone and Pulse	Yes	Yes	✓
PBX pause four seconds nominal	No	No	
Standard Piercing Pin Clips Cord	**N/A**	**N/A**	**N/A**
Banana Jack & Alligator Clips	**300TE117 $86.50**	**300TE118 $97.50**	**300TE019 137.00**
Angled Bed of Nails Cord	**N/A**	**N/A**	**300TL010 $137.00**

Pro2000™ Tone & Probe Kit

Pro2000 Tone Generator and Pro2000 Probe provide a system that works with all types of wire and cable, including twisted-pair, multi-conductor cable, electrical wire, speaker wire, coaxial, alarm cable and LAN cable. Without making direct metallic contact with the conductor, the Pro2000 Probe provides precision tracing and identification of cable pairs. Lightweight and easy to use, the Pro2000 Probe has a jack for optional earpiece. The Pro2000 Tone and Probe can be purchased separately or as a kit with their own carrying pouch. Kit includes: Pro2000 Tone Generator, Pro2000 Probe and Pouch.

No. 300PR260 Pro2000 Tone & Probe Kit **$95.50**
No. 300PR261 Pro2000 Probe **$59.00**
No. 300PR262 Pro2000 Tone Generator **$31.50**
No. 300PR263 Pro2000 Probe Ear Piece **$16.50**
No. 300PR264 Tone & Probe Pouch **$13.00**

TS®100 Cable Fault Finder

With the TS®100 measuring cable or identifying tone on a specific line are no longer time consuming or a two-person task. It's the fastest tool available for measuring opens and shorts all from one end of the cable. Works on virtually any two or more conductor cable up to 2,500 feet with no additional calibration for wire thickness, and uses 5 types of clips. Features a tone generator that identifies a specific pair of cables quick and easy, even in proximity to current-bearing cable. Has a bright, large LED screen and simple menu is easy to read, even in low light conditions. An alarm will sound when clipped on to an unidentified pair at a job site, with voltage up to 250VAC. Designed with a Time Domain Reflectometry (TDR) with 50Ω drive impedance and 6V maximum pulse height.

TS100 with Alligator Clip
No. 300TE265 ..... **$359.00**
TS100 with BNC to Banana to Bed of Nails
No. 300TE650 ..... **$359.00**
TS100 with Cord Package
No. 300TE500 ..... **$499.00**

HARRIS Communications

TS1000™ ADSL Test Set

The TS1000 handheld unit is designed for ADSL testing, verification, and troubleshooting. This test set gives you the ability to easily synchronize with the service provider's ADSL DSLAM before or after the splitter, lets you isolate the failure cause between the customer's on-site equipment and the service provider, and allows you to validate service activation and compare the actual throughput against the subscribed rate. **Features:** display up/down stream parameters; firmware upgradeable; splash-proofed membrane keypad; extra tensile strength Combi-line cord with angle clips and RJ11 plug. The modem clip set supports ANSI T1.413 Issue 2, ITU G.DMT, and G.LITE standards. **(USA)**
No. 300PR700 ..... **$1750.00**

LEASING AVAILABLE!

TS220 & TS250 Basic Rate ISDN Test Sets

TS220 and TS250 test sets virtually eliminate the need to learn complex ISDN protocols, and they allow complete data and voice testing, from line termination to terminal equipment. Both models test the two wire U Interface, while the TS250 permits additional inspection of the four-wire S/T Interface inside the customer premises. Three primary modes enable easy and rapid line analysis, from the Central Office to all points downstream. NT1-TE mode provides terminal equipment functionality at the U Interface. The TE mode (TS250) quickly tests the S/T Interface between Terminal Equipment and the customer's network terminator. **Features:** 1B or 2B Channel BERT; Automated Call-Yourself BERT; FEBE and NEBE testing; embedded operations channel; 64K and 56K data and voice calls; amplified speaker; transmitter mute switch; 40 kHz. tone generation (U Interface); 96 kHz. tone generation (S/T Interface) (TS250 only); on-line assist key explains complex messages in plain English; 20-location, 19-digit repertory dialer. **Specs:** Switch Compatibility: AT&T 5ESS, Northern Telecom DMS-100, National ISDN-1; S/T Interface: ANSI T1.605; U Interface: ANSI T1.601; Battery Life: NiCad 8 to 10 hours (alkaline AA 10 to 12 hours); Charge Time: 4 to 5 hours; 40 kHz. Transmit (U Interface): 40 kHz. tone generation at 135Ω; 96 kHz. Transmit (S/T Interface): 96kHz. tone at nominal 750 mV peak.

No. 300TE470 (TS220) **$1950.00**
No. 300TE475 (TS250) **$2250.00**

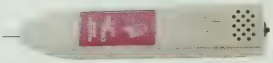
HARRIS Communications

Power Finder Circuit Seeker™

Your "Power Finder" provides circuit condition indications of open, shorted or live line modes and can be plugged into a 120 VAC outlet or, with the included leads and blades, be attached to higher voltages. Transmitter features: 0-600V AC/DC; line power or 9V battery; auto off after 31 min.; 8mA avg. current; 33.3 kHz frequency. Receiver features: 9V battery; auto off after 1 min. **Includes:** instruction video; adapter leads and AC blades; ear phone/tube; batteries and case.

No. 414TE011 ..... **$495.00**

Audible Circuit Probe



Use to check: Continuity, AC & DC voltages, resistors-(to 1MΩ), capacitors (to 3000 mfd.), Diodes & transistors. Compares circuit resistances; safe for Semiconductors and CMOS. Logic (probe current limited to 500ua.) Produces a tone that varies with resistance, capacitance or voltage. Test live circuits up to 130V DC or AC. Won't harm any circuit. 9V battery included. Wt. 4 oz. 7"L x 1.2"W x .9"D.

No. 664TE012 ..... **$19.95**

Pocket Toner® 2 Tool Kit

New!

Give a more secure connection for various adapters, allowing for replacement of each accessory independently with the Pocket Toner® 2 Tool Kit. The bicolored LED lamp-Red indicates a short or device in-line. Green indicates a 75Ω or 50Ω termination. Has a larger, brighter bicolored LED and improved audible tones. Female thread connection allows for quick removal of male F connectors and easy change-out of multiple adapters.

No. 392TE022 ..... **$76.55**

No. 392PR450 RJ45 MOD-ADAPTER **$10.50**

Telephone Combo Kit
Pocket Toner® kit with 66-block check and F-RJ11 adapters to test telephone line installations.

No. 392TE002 ..... **$66.25**

LAN Combo Kit
Pocket Toner® kit with 66 block check, and F-RJ11, BNC, and RCA Adapters to Test LAN installations.

No. 392TE021 ..... **$71.20**

Loop Current Attenuator

Reduces damaging loop current to an acceptable level without sacrificing the voice or data quality of a circuit. **Includes:** 2 female modular jacks, and terminal wires for punchdowns or screw terminals. **(USA)**

No. 467TE401 ..... **$54.80**

DataLite™ Cable Identifier

New!

The DataLite™ Cable Identifier is a time-saving way to identify cable in new installations and existing networks. It quickly and accurately matches a patch panel port to its corresponding workstation, and identifying cable and troubleshooting mislabeled networks. Easy to use, simply plug the DataLite™ modules into terminated patch panel ports, second plug the DataLite™ power unit into the workstation outlet, and the illuminated module indicates where the workstation is terminated. Works on any communication wiring scheme. **(USA)**

With 1 power unit and 25 modules

No. 462TE840 (33-840) **$59.40**

DataLite™ main power unit

No. 462TE292 (62-292) **$18.80**

Craft Testset Model 4

Built to withstand rugged use, the moisture-resistant case ensures reliable performance under demanding weather conditions. The low profile design is light, easy to carry and fits comfortably on the shoulder. The keypad is easily accessible while hanging from the clip. Recessed keypad design prevents keyboard damage and minimizes accidental button contact.
Features: DTMF (tone) and rotary (pulse) dialing; electronic ringer indicates incoming calls; last number redial -23 digits; line polarity indication; register recall/hook flash; mute feature for noisy locations; cordset selection with industry standard clips; non-slip shoulder pad; recessed keypad design; convenient belt clip; safe for data/monitor impedance >120kΩ.

No. 462TE400 ..... **$159.00**

Craft Testset Model 4SP

The Craft Testset Model 4SP includes all of the features above plus an amplified speaker to monitor line activity. The speaker is activated from the keypad and has two different levels of user-selectable amplification.

No. 462TE405 ..... **$189.00**

Replacement leads with bed of nails
No. 462AC425 ..... **$25.95**

Replacement leads with nails
No. 462AC427 ..... **$25.95**

Modular to modular cable assembly
No. 462AC431 ..... **$19.95**

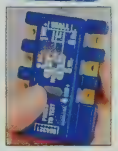
346 Cord
No. 462AC433 ..... **$45.95**

Tele4™ Modular Adapter

This easy-to-use 4-position, in-line adapter is reverse wired to allow easy testing of phone circuits without service interruption. The easy-to-read label clearly defines pin number and wall direction identification. Large perforated test pads allow secure attachment of test probes and alligator clips.

No. 462TL094 ..... **$22.65**

Smart6™ Modular Tester



This reverse-wired modular adapter is designed specifically for voice circuit testing. A versatile tester, it uses LED indicators to display polarity, jack addresses and incoming call identification for typical on-the-job applications. The test button tests one or two pairs for voltage on the line. Allows access to the circuit as a modular test adapter without disrupting service.

No. 462TL096 ..... **$30.85**

Data8™ Modular Test Adapters

Allows the testing of T568A, T568B, 10Base-T, Token Ring and TP-PMD systems. Use the test adapter with tone generators, butt-in test sets, and other test devices to provide access to data lines without service interruption. Features EIA/TIA Category 5 jacks and a unique internal circuit design to reduce attenuation, coupling, and "jitter" when testing data lines.

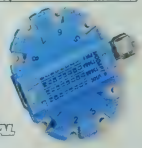
No. 462TL098 ..... **$27.80**

Banjo Modular Adapter

Now when the modular jack clip breaks, you don't have to toss it out... just replace the test cord and you're back in business. Allows circuit access without disrupting service; copper contacts are angled to prevent alligator clips from falling off during testing. There are also small holes in each contact for the use of test probes. Circuits are clearly marked.

Description	Banjo 4-wire	Banjo 6-wire	Banjo 8-wire	Standard Adapter
TT No.	No. 300AC210	No. 300AC220	No. 300AC230	No. 300TE010
PRICE	$20.50	$22.00	$31.50	$11.00

Modapt®



In-line test for any plug/jack combination. Includes: two 4-pair outlets plus a 6" modular cord terminated with 4-pair universal plug for accessing any standard 6- or 8-position jack. Quick reference USOC, T568A and T568B Charts printed on body.

No. 708TE003 ..... **$25.60**

Telephone Line Tester

Test form the modular connecting block for common trouble conditions such as open line, polarity reversal and AC voltage. **(USA)**

No. 467TL003 ..... **$5.60**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

JUST THE FACTS			
Model	Lil' Buttie	Lil' Buttie Scout	Lil' Buttie Pro
LCD Display			X
Scrolling Recall			X
Caller ID			X
DataAlert			X
Over Current Protected			X
Amplified Monitor Earpiece	X	X	X
Amplified Monitor Speaker		X	
9V Battery for Monitor Amplifier	X	X	X
Low Battery Indication	X	X	X
Tone and Pulse Operation	X	X	X
Last Number Redial	X	X	X
Continuous Polarity Indication	X	X	X
Moisture Resistant	X	X	X
PBX Pause Button	X	X	X
Mute Switch	X	X	X
Headset Jack	X	X	X
High Impedance Monitor	X	X	X
Electronic Ringer	X	X	X
Loop Limit 2K @ 48VDC	X	X	X
Talk Mode Resistance (275@20mA)	X	X	X
Monitor Mode Impedance	X	X	X
Rotary Dial Output:			
Pulsing Rate 10pps (0.5pps	X	X	X
Percent Break 61% (2%	X	X	X
Interdigit Interval 820mS	X	X	X
Leakage During Break >50K	X	X	X
Redial Memory:			
Capacity	1-32 digit	1-32 digit	5-19 digit
Last Number Redial	X	X	X
Storage Time >3 yrs	X	X	X
Operation Tone and Pulse	X	X	X
PBX Pause 3.4 Sec	X	X	X
TT. No.	**772TL101**	**772PR101**	**772TL200**
PRICE	**$119.95**	**$150.40**	**$179.95**

New!

Talk-To-Me Personal Communications Set

This hands-free personal communications set gives you clear, clean voice communication without interference or "dropouts" over coax cable, audio cable, speaker wire, telephone lines, or even common electrical wiring. Designed with a range up to 5,000 feet and up to 4 can be linked together for party line use. Has a full ring alert function and ring is detected whether unit is on or off. When secure point-to-point full duplex communication is needed, the Talk-to-Me will provide the right solution. Two units connected to any pair of wires will produce an instant clear path for coordinating activities on the job. **Specs:** Electrical: Return Loss: >14db @ 600Ω; Battery Life: 75hrs. Uses 9V battery (not included) **(USA)**

No. 772PR100 ..... **$132.80**

TEST-Um High-Sensitivity Tone Tracer

The High-Sensitivity Tone Tracers slim, ergonomic design, and balanced weighting make this the most comfortable tracer available. Used in conjunction with any audio tone generator, it permits wire and cable identification without having to make direct metallic contact with the conductor. It can be used with either a wearable headset or a standard call phone set. Quick-change tips make for easier in-field use. Benefits of this tone tracer is it reduces volume so amplifier does not saturate, prevents accidental activation, reduced power line interference, faster tip change, no guessing when to replace battery, uses Lil' Buttie wearable headset or a standard cell phone head set.

No. 772TE100 ..... **$47.95**

TT100 Tone Probe and TG100 Tone Generator in cordura pouch with flap
No. 772TE101 ..... **$98.00**

Includes LB110, with headset and bed of nails cord set in cordura pouch with flap
No. 772TE200 ..... **$143.50**

Includes 220 with headset and bed of nails cord set in cordura pouch with flap
No. 772TE220 ..... **$189.98**

Includes LB110, TT100, TG100 in cordura pouch with flap
No. 772TE300 ..... **$229.95**

Includes LB220, TT100, TG100 in cordura pouch with flap
No. 772TE400 ..... **$273.95**

Multi Function Tone Generator with Alligator Clips
No. 772TE102 ..... **$32.95**

Multi Function Tone Generator with bed of nails
No. 772TE103 ..... **$37.95**

Replt Cord Set - alligator clips
No. 772AC100 ..... **$6.20**

Replt Cord Set - bed of nails clips
No. 772AC200 ..... **$13.50**

Replt Tip for TT100 - round
No. 772AC300 ..... **$5.00**

Replt Tip for TT100 - paddle style
No. 772AC350 ..... **$5.00**

Acessories for Test-Um Test Sets

Cable set with alligator clips
No. 772AC010 ..... $19.00

Cable set with piercing clips
No. 772AC020 ..... $22.00

Cable set with bed of nails
No. 772AC030 ..... $26.00

Headset/microphone
No. 772AC040 ..... $15.00

Garmin GPS III

This global positioning system receiver with electronic map. Shows the lay of the land, and where you are standing. The GPS III loaded millions of miles in interstates, highway, railroads, rivers and shorelines. Twelve parallel channel receiver will find your position fast. **Features:** Waypoints: total: 500 each with name, symbol and map display option, nearest: 9 continuously updated, routes: 20 reversible routes with up to 30 waypoints each plus MOB and TracBack; Track Log: approximately 1900 active log points plus 10 saved logs; Map Datums: over 100; Coordinates: Lat/Lon, UTM/UPS, plus 8 grids, including Maidenhead and a user UTM grid. Performance Receiver: Differential-ready, 12 parallel channel receiver continuously tracks and uses up to 12 satellites; Accuracy Position: 15 meters RMS: Velocity: 0.1 knot RMS steady state. Accessories Standard: Wrist strap, manual, velcro mount, quick reference card. Subject to accuracy degradation to 100m 2DRMS under the United States department of Defense imposed selective availability program. **(USA)**

No. 395AC126 ..... **$463.60**

GA 26 low profile remote antenna, magnetic and suction mounts with 8ft, cable and MCX connector.

No. 395AC052 ..... **$99.95**

No. 395AC085 Cigarette lighter adapter **$23.30**

No. 395AC117 Carry Case **$12.70**

Bare Fiber Adapter Kit - 5 pc

Use in the field or at your bench. This kit is designed for the specific applications and connector styles your equipment require. Includes the connectors you use the most: FC, ST, SC and QuickLink® Universal Mating Sleeve. The QuickLink® allows for greater flexibility when connecting the Bullet® Bare Fiber Adapter to patch/jumper cables. One QuickLink® will link the Bullet® to any patch cable with a 2.5mm ferrule or FC, ST, SC, DIN and E2000 connectors.

No. 362PR245 Bare Fiber Adapter Kit - SM **$185.00**

No. 362PR356 Bare Fiber Adapter Kit - MM **$159.00**

STM-8 Cable Tester

Compact cable tester with LED's that identify the most common trouble sources for voice/data wiring. Tests for shorts, opens, reversal and crossed pairs up to four pairs in cable assemblies and building wiring. Indications for 6- and 8-positions. Low battery and line voltage indications. Test cable runs up to 900m, (2950 ft.). Up to four remotes can be individually identified by the master unit.

No. 708TE080 ..... **$268.15**

Voice Network Analyzer

For installation, maintenance and troubleshooting by the telecom field technician. This test and measurement set bridges the gap between general purpose multimeters and expensive transmission test sets. AC power supply and recharger with rechargeable Ni-Cad battery included. Precision 600Ω quiet line termination and auto polarity DC voltmeter & millimeter. Battery life indicator with automatic shut-off. High fidelity monitor speaker with adjustable volume. Audio frequency counter; 1004Hz/0dBm tone generator. True RMS dB and AC voltmeter; 32-digit DTMF/DP display meter. 7.5"L x 4"W x 1.4"D, Wt: 13 oz.

No. 555TE064 ..... **$630.00**

Digit Grabber® TPM-32 Dialed Digit Meter

Monitors DTMF & dial pulse signaling thru any telephone or wireless communication system. A high impedance (100KΩ) instrument that bridges the line without loading. Tones are heard through the monitor speaker as they are displayed. 7"L x 4"W 1.4"D. Wt.: 13 oz. w/Cordura case.

Cordura is a trademark of DuPont.

No. 555TE050 ..... **$310.00**

Telephone Line Checker

With the Telephone Line Checker, the modem on your notebook computer will completely protect and be reduce the headache of Internet, E-mail, and fax being interrupted by RFI. Just insert the phone line to the Telephone Line Checker or plug the Telephone Line Checker with attached adapter cable to the wall jack. Then identify if the line is safe, polarity reverse, or line open. Near a radio transmitter telephone, telephone wires can act as antennas, which draw radio frequency interference (RFI) to corrupt data receiving over modem, and interrupt your Internet and e-mail connection.

No. 310TE201 ..... **$29.00**

Cable Testers

Model 468 Telcom Cable Tester

The modular cable tester features a built-in tone generator. Simply connect any eight-position modular plug to the appropriate jack on the transmitter and a sweeping tone signal is applied to all pairs. At the far end of the cable, use any Inductive Amplifier (probe) to locate the corresponding plug or jack. Connecting the Receiver unit automatically activates the test process. It identifies opens, shorts, reversals, and transposed pairs. **Specs:** Power: one 9V battery (not included); Tone Frequency: 850 and 950 Hz alternating; Voltage Protection: (468T) 52 VDC; (90) V P-P (up to 10 min.); (468R) 52 VDC (momentary).

No. 666TL468 Modular Cable Tester **$115.00**

MiniTracker Plus

GSA Advantage!

Miniature RS-232 signal monitor that can be used with synchronous as well as asynchronous interfaces. Any 24 lines (signal ground excluded) can be seen at a glance. The 24 pairs of LEDs can display high, low, off or data signals without the need for batteries.

No. 281ME002 MT-2 ..... **$50.00**

RS-232 Signal Monitor

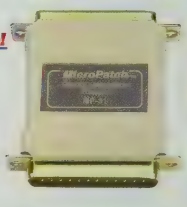
Mini-Tracker MT-31

Smallest RS-232 signal monitor currently on the market. Allows monitoring of the 8 most commonly used RS-232 signal lines. All 25 RS-232 signal lines, including the unmonitored lines, are routed straight through on the Mini-Tracker.

No. 281ME001 ..... **$24.00**

Micropatch

GSA Advantage!



Allows custom wiring of any RS-232 interface without the need for custom cables or soldering. Designed with 60 minispring sockets; 25 connected to each DB-25 connector & 10 more in the center for bussing common connections together. 25, 2" jumper wires supplied. Male to Female.

No. 281ME012 MP-1-MF **$30.00**

TVR10/100™ LAN Tester

Test, verify repair 10Base-T and 100Base-T networks with the TVR10/100™ LAN Tester. This LAN Tester is comprised of two units: the "main unit" and the "remote probe". The main unit performs most of the tests such as determining the LAN device type and the LAN speed without the need of the remote probe. The remote probe adds the ability to trace cable locations tracing tones cables with all four pairs to insure compatibility with all three types of Base-T LANs. Test for locates miswired cables, missing cables, cables that can not support 100Base-T operation. Tests connection to hub, PC, installed cables, and patch cables. Helps located and trace inactive cables, and traces active cables connected to hubs and PC without interfering LAN performance.

Includes: TVR10/100 main unit and remote probe; Batteries; RJ45 to RJ45 jumpers, map and a protective pouch. **(USA)**

No. 213TE100 ..... **$239.95**

GSA Advantage!

D200 Series Pocket Cable Testers

The 200 series cable testers are a simple approach to testing network, telcom and CATV cables for correct continuity. The two-piece design allows users to test cables either before or after installation. Test your 10BASE T, and telcom cables prior to installation or even after they're in service. The D200 and D210 testers will check for proper wiring, crossed pairs, opens and shorts on LAN cables using RJ45 connectors and on USOC telcom cables using either RJ45 or RJ11. **(USA)**

No. 281TE200 (D200) RJ45 10BASE T, T568, USOC **$79.95**
No. 281TE210 (D210) RJ45 and RJ11 USOC Telcom.... **$79.95**

D350 Portable Cable Testers

Test your 10BASE T and T568 cables prior to installation. The D350 performs all of the continuity tests to test 10BASE T and T568 cables all in one unit and will also alert you to the presence of live thinnet traffic and proper termination. It also checks for split pairs and can activate a 10BASE T hub and check for the presence of ethernet traffic. **(USA)**

No. 281TE350 ..... **$229.00**
50/68 - pin SCSI
No. 281TE370 ..... **$299.00**
RJ 45UTP for T568, BNC Coax
No. 281TE320 ..... **$199.00**

D400 Series Pocket Fiber Testers

GSA Advantage!

If you have access to both ends of a terminated fiber, you can test it with the 410 by simply looping it across the tester's transmitter and receiver connectors. Test cables with the D410 before and after installation with the easy-to-read bar graph display using ST connectors or SC connectors with the D440. The readout is a measure of absolute optical power labeled in 2 dBm steps. **(USA)**

No. 281TE410 Source & Receiver **$295.00**
No. 281TE440 Multimode Fiber Checker .. **$295.00**

Linkmaster™ Tester and Remote

New!

Pocket-sized tester for basic troubleshooting of analog voice system installations and maintenance. It monitors phone lines of dial tone quality and presence of power, detects tracing tone signal to locate cables, and tests for correct jack polarity (detects reversed tip and ring), and is equipped for jack or cross-connect system access. **Features:** receives and reproduces telephone system dial tone (Listen function in off-hook mode); volume control; test pads for clip lead access connected to two center pins of ABS RJ-11 jack; 60 cycle noise rejection for clear tone detection; receives tracing signals for identifying specific conductors in a cable run; lanyard attachment for hands-free operation; moisture-resistant case; replaceable line cord. 9V battery included. **(USA)**

No. 462TE200 ..... **$94.95**

WireMap™ 10/100 Ethernet Tool

New!

Trace cables, verify correct termination, view links and traffic activity with the press of a single button. The WireMap™ automatically scans UTP and STP cables for opens, shorts, swapped wires, split pairs and shield. Telco and Token Ring cables can also be tested and an audible beeper alerts you to cable faults. The WireMap™ can be plugged into a hub or switch, it will automatically establish link and display a traffic bar graph. It can fully support the 10/100 Ethernet standard and will consistently identify the link and tell you what has taken place and what the other device is capable of doing. **(USA)**

No. 281PR620..... **$399.00**

SCSI Cable Tester

New!

The SCSI Cable Tester offers a quick solution to such cable problems as random errors, data corruption, impaired performance and system crashes. This portable easy to use cable tester is powered by a standard 9V alkaline battery. Using a single rotary switch, you can control the scanning speed of up to 68 cable conductors and a shield. Twin rows of leds show which pin is being driven and how that pin maps to the connector to help you find opens, shorts, and mis-wired cables. **(USA)**

No. 281TE370 ..... **$299.00**

D520 Series LAN Cable Testers

GSA Advantage!

The D520 supports all D510 functions but displays all cable and traffic status via LCD display. The 520 also supports split pair testing for 10BASE T, precise terminator testing for Thinnet and has enhanced traffic monitor features. A loop-back module is included to allow testing of both new and installed cables. Test thinnet as well as RJ45, 10 BASE T and Type 1 token ring. LANs and will alert the user to the presence of network traffic. **(USA)**

RJ45 10BASE T, BNC Thinnet DE9 to Type 1 Token Ring
No. 281TE510 (D510) **$495.00**
No. 281TE520 (D520) **$795.00**

DataLite Cable Identifier

New!

This is your time-saving way to identify cable in new installations and existing networks to quickly and accurately match a patch panel port to it's corresponding order cable. Easy to use the power unit plugs into the workstation and the module plugs into the patch panel ports, and illuminates to indicate where the cable is terminated. **(USA)**

1 power unit and 25 modules
No. 462AC840 ..... **$59.95**
DataLite main power unit
No. 462TE292 ..... **$18.80**

LAN Cable Modular Adapter

The LAN Cable Modular Adapter Box allows you to couple between different formats of LAN wiring. Tip/Ring of Pair 1 on any jack are directly connected to Tip/Ring of Pair 1 on all other jacks. Pairs 2 through Pairs 4 are connected similarly. **Specs:** Cable Types: EIA/TIA T568A, EIA/TIA T568B, USOC 4 Pair, USOC 3 Pair, Token-Ring, 10-BASE-T, TP-PMD and MMJ. ***One-Year Warranty.*** **(USA)**

No. 790TE242 ..... **$37.00**

Line-Bug 2 Telephone Line Tester

This dual telephone line tester is an easy economical way to troubleshoot common problems with standard telephone hook-ups. Works on both single and dual telephone lines. ***One-Year Warranty.*** **(USA)**

No. 790TE200 ..... **$8.95**

310-TEL Analog VOM

Designed with the telco service person in mind the 310-TEL has 16 ranges and functions, and features a polarity reversing switch. **Specs:** DC Voltage: Range: 3, 15, 60, 300 (20kΩ/Volt), Accuracy: ±3% of full scale; AC Voltage: Ranges: 3,15,60,300 (5KΩ/Volt), Accuracy: ±4% of full scale; Resistance: Ranges: 20KΩ, 200KΩ, 2MΩ, 20MΩ, Accuracy: ±3% of Scale Length; DC Current: Ranges: 600μA to 600mA, Burden Voltage: 330mV. ***Three-Year Warranty.*** **(USA)**

No. 790TE224 ..... **$121.00**

Digital Subscriber Loop Test Set

This Digital Subscriber Loop Test Set was designed with features that include: 3.5 digit LCD Readout; Transmission Test Set: DC and AC Volt/Ohmmeter; 17 Frequency Multitone generator; Bridged or Terminated Input @ 600 or 900Ω; True RMS Detector; Lid Switch Shut-off. **Specs:** Display: 3-1/2 digit LCD; Batteries: (2) 9V. ***Three-Year Warranty.*** **(USA)**

No. 790TE060 Model 5 Loop Test Set..... **$620.00**

No. 790TE063 Model 5 (CCITT Version).. **$720.00**

The Fox & Hound

A. The Fox Wire Tracer

The Fox is a lightweight, compact, battery powered tracer. Alligator clips and a modular plug allow the Fox to be quickly connected to stripped wires, a terminal panel, or a standard modular jack. Two selector switches set the function of the Fox, while an LED acts as a visual indicator. Battery: 9V alkaline(not included). ***One-Year Warranty.*** **(USA)**

No. 790ME380 ..... **$29.00**

B. The Hound Probe Inductive Tracer

The Hound is a portable, hand-held, inductive tracer that will aid in identification of wires without piercing their insulation. Trace the Fox's tone through dry wall, wood and other non-metal surfaces. ***One-Year Warranty.*** **(USA)**

No. 790TE390 ..... **$50.00**

C. LAN Fox Tone Generator

The LAN Fox is a compact, hand-held tester designed to locate un-energized LAN cables. The single selector switch sets the tone of the LAN Fox to HI or Low warble, while the LED gives visual indication that the unit is on. Use on: EIA/TIA T568A & T568B, 10-BASET, Token-Ring, TP-PMD, BNC cables with adapter. ***One-Year Warranty.*** **(USA)**

No. 790TE243 LAN Fox **$31.00**

LAN Fox & Hound 2 Probe Set

No. 790TE249 ..... **$75.00**

D. The Hound 2 Probe

The Hound 2 Probe has an adjustable volume control and an LED that intensifies as the tone signal gets stronger. ***One-Year Warranty.*** **(USA)**

No. 790TE236 ..... **$50.00**

LAN Cable Testers

PairMaster LAN Test Set - 23 pc

LAN cabling installations. This LAN Cable tester can identify one of up to 16 cable pairs with the simple press of a button. The PairMaster will also check for 8 faults including Near End Crosstalk (NEXT) for double split pairs. **Features:** EIA / TIA 568 configuration for UTP Ethernet and Token Ring LAN Cables; Tests 1/2, 3/6, 4/5, 7/8 cable pairs; and more. **Includes:** (1) PairMaster LAN Cable Test Set; (16) Remote Identifiers, #1 thru #16; (1) RJ-45 Patch Cable (Category 5); (2) RJ-45 In-Line Couplers; (1) 9V battery; and Manual. ***One-Year Warranty.*** **(USA)**

No. 790TE241 ..... **$839.00**

WireMaster™ BNC LAN Cable Tester

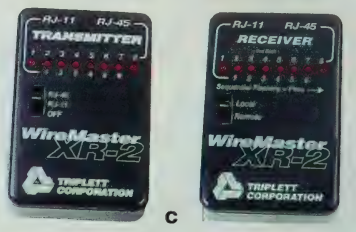
Quickly verify the continuity of un-energized coaxial patch cables terminated with BNC connectors. Checks for open conductor, open shield and shorts. ***One-Year Warranty.*** **(USA)**

A. No. 790TE252 ..... **$37.00**

RJ-45 LAN Cable Tester

Hand-held tester designed to quickly verify the wiring of un-energized, eight-conductor patch cables terminated with RJ-45 connectors. Cable types: AT&T 258A, EIA/TIA T568A or T568B, TP-PMD and any RJ-45. ***One-Year Warranty.***

B. No. 790TE251 ..... **$37.00**

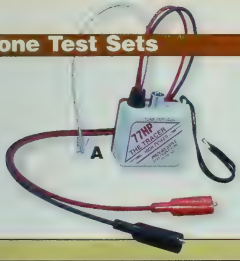


WireMaster XR LAN Cable Test Set

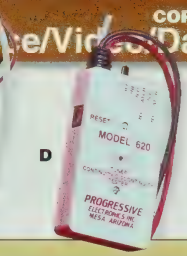
The WireMaster XR is the perfect test set for verifying the continuity of 2,3 or 4 pair UTP cables. It senses reversed, shorted, transposed, crossed and open pairs. It also generates tracer tones for locating un-energized LAN cables. The single selector switch sets the Transmitter to RJ-45, or RJ-11. Cable Types: RJ-45, RJ-11; Output Tone: 5V; ***One-Year Warranty.*** **(USA)**

C. No. 790TE3254 ..... **$104.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400



PROGRESSIVE ELECTRONICS INC.
a division of GREENLEE TEXTRON



JUST THE FACTS

	TT No.	Sends Tone	Selectable Warble	Continuity Test	Polarity Test	Talk Power Supply into 600 Ohm	Resistance Level Measurement	Bed-of-Nails Clips	Special Notes	PRICE
A	666TE077	Yes	Yes	Yes	Lines 1 & 2	4.5 VDC	No	No		$32.00
B	666TE776	Yes	Yes	Yes	Lines 1 & 2	6.5 VDC	No	Yes		$36.75
C	666TL581	Yes	Yes	4 Pairs	4 Pairs	6.5 VDC	No	No	Full 8 conductor breakout with plug and jack	$66.00
D	666TE020	Yes	No	Yes	Lines 1 & 2	10.0 VDC	Yes	No	Audible level and capacitance testing	$80.00

402K CATV Cable ToneTest Set

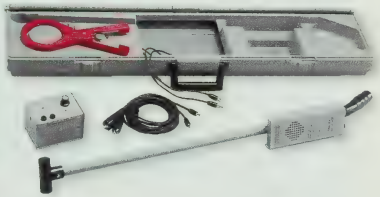
Designed specifically for the CATV industry, the 402K will send tone through any passive device along the cable path. Tone through splitters, directional couplers and traps. No more long delays trying to figure out non-tagged or mistagged cable drops. The transmitter and receiver are equipped with female F-connectors and the kit provides both audible and LED test and tone indications. The addition of optional adapter test leads allows the 402K to be used on distribution cables as well as wire pairs or single conductors. Each kit consists of: one transmitter, one receiver, one male F-to-F connector adapter cable, one male F-to-alligator clip adapter cable, and a case. **Specs:** Power requirements: two 9V batteries (one ea. unit); Tone output: pulsing 15dBm into 75Ω alternating 18dBm into 75Ω; Transmitter frequency: 75KHz nominal; Voltage Protection: transmitter 60V (in OFF position) receiver 50V; Allowable Attenuation: viable tone signal to 45dB. **(USA)**
No. 666TE402 ..... **$140.00**

Test-All IV Four-Pair-Cable Test Kit

Ideal for testing multi-pair cables in all types of voice and data equipment. Test-All IV was designed to work with the AT&T PDS four-pair wiring plan. Works well with all other wiring configurations, phone systems and computer equipment. The Test-All IV features three modes. The Pair Voltage Test detects voltage on the cable pairs and monitors the output of communications equipment. The Tone Mode sends tone on up to four pair simultaneously. The Continuity Test checks four pair (eight conductors) simultaneously, detecting opens, shorts, reversals and transpositions. **Includes:** Test-All IV, eight-conductor modular cord, 110 block adapter, two Universal 66 block adapters, BIX adapter, modular LED shorting plug, modular alligator clip cord, protective carrying case with belt loop and user's guide. ***One-Year Warranty*. (USA)**
No. 467TL002 ..... **$239.00**

508S Wire Finder

For those technicians who occasionally need to locate buried or in-wall wiring but don't require all the "bells and whistles" of high priced locators, the 508S is for you. Its compact design doesn't take up valuable space. The model 508S provides reliable results on buried cables to depths of 3ft. and lengths up to 1000ft. The unit can even be used to determine the approximate depth of the wire before you dig. Includes: fully adjustable transmitter and receiver for accurate locating; quick change test leads for use in any industry, even international power outlets; voltage protection to allow use on live AC circuits; automatic shut-off to prevent accidental battery discharge. **Specs:** one 9V each (transmitter and receiver, included); Transmitter frequency: 447.5KHz; Transmitter power: 9V p-p (11mW); Voltage Protection: 240V AC, 500V DC. **(USA)**
No. 666TE508 ..... **$240.00**



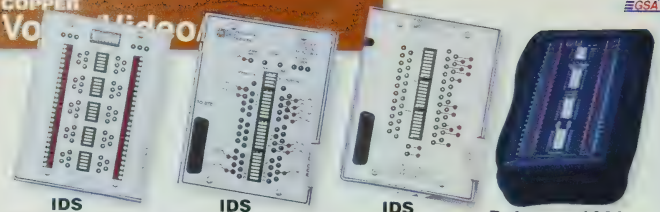
For Long Range Cable, Wire & Pipe Locating!

Loop Current Test Set - 2 pc

Improper Loop Current causes numerous circuit failures. Less than 23 mA or more than 35 mA causes many communication loop problems. Key and PBX systems as well as data circuits will fail from improper loop current. The Loop Current Attenuator protects sensitive electronic key, PBX and data equipment from excessive loop current. It adjusts potentially damaging DC current to a safe level without affecting voice or data transmission quality. This kit features precision digital technology, circuit breaker protection, ground start capability, and two distinctive tone supplies. **Includes:** a test cord, adapters, guide, a 9V battery and a padded case. ***One-Year Warranty*. (USA)**
No. 467TL004 ..... **$208.95**

Underground Cable Locator System

Includes: *RF Signal Transmitter* modulated with a tone of approx. 1000 Hz. permits effective performances at distances of up to 4,000 ft. and depths of 10 ft.: *Inductive Coupler* to clamp around cable, sending a tone that enables the user to locate active or dead cables; *Inductive Antenna* used to transmit a signal through the ground or place over the cable, wire or pipe to be located; *Receiver* is a hand-held unit used to trace the path of the cable, pipe or wire. Mounted on a 33" handle, it includes an ON/OFF sensitivity control, signal strength meter and audible tone speaker; 8' Cord Set with two black leads. **(USA)**
No. 666TE501 ..... **$687.00**

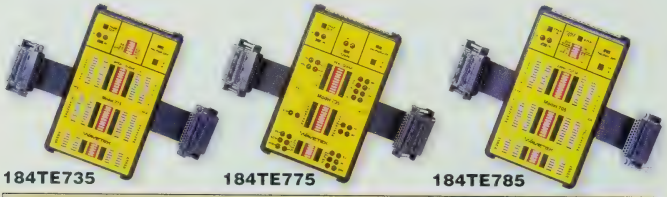


IDS Blue Box 100 | IDS Blue Box 62 | IDS Blue Box 60 | Datacom 1000

JUST THE FACTS					
Model	BB100	M62BP	M60	BBV.35	1000V
TT No.	474TE100	474TE062	474TE060	474TE035	281ME1000
Interface	RS-232-C	RS-232-C	RS-232-C	V.35	RS232
Max Data Rate	256 Kbps	256 Kbps	256 Kbps	3 Mbps	56Kbps
Lines Per Interface	25	25	25	34	25
Signals Monitored	25	11	12	12	25
Spare Monitor	N/A	Yes	Yes	Yes	N/A
High Speed Pulse Traps	No	1 POS. 1 NEG	No	2 SE. 1 BAL	NO
Breakout Switches	25	25	24	34	25
Test Points	50	50	49	68	50
Stacking Jumpers	5	5	5	10	–
Connectors (To DCE)	DB25 (M,F)	DB25 (M)	DB25 (M)	34-PIN (M)	DB25(M/F)
Connectors (To DTE)	DB25 (M,F)	DB25 (F)	DB25 (F)	34-PIN (F)	DB25 (M/F)
Attached Cable(s)	(To DTE/DCE)	(To DCE)	(To DCE)	(To DCE)	Yes
TD, RD Cross Switch	Yes	Yes	No	No	Yes
Test Voltages	Yes	Yes	No	Yes	Yes
Terminating Resistors	3K ohm (3)	3K ohm (3)	No	100,3K ohm (2)	No
Warranty	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime
PRICE	$230.00	$185.00	$115.00	$625.00	$419.00

Breakout Boxes

They are simple and easy-to-use with high-visibility green and red LEDs indicating good and bad status. Select from four models that provide basic connection testing through sending bi-directional signals.

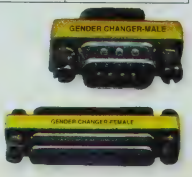


184TE735 | 184TE775 | 184TE785

JUST THE FACTS				
TT No.	184AC725	184TE735	184TE775	184TE785
Model	725	735	775	785
Interface	RS-232	RS-232	RS-232	RS-232
Max Data Rate	–	1Mhz	1Mhz	1Mhz
Lines per Interface	25	25	25	25
Signals Monitored	15	15	25	25
Monitors	Primary	Primary	All In & Out	Line by Line
High Speed Pulse Traps	No	Yes	Yes	Yes
Breakout Switches	25	25	25	25
Test Points	Yes	Yes	Yes	Yes
Stacking Jumpers	No	No	No	No
Connectors (To DCE)	Yes	Yes	Yes	Yes
Connectors (To DTE)	Yes	Yes	Yes	Yes
Attached Cables	Yes	Yes	Yes	Yes
TD, RD Cross Switch	Yes	Yes	Yes	Yes
Test Voltages	No	Yes	Yes	Yes
Additional Features	Additional Line	Pulse Tripping	Crossover Switching	2 Cable Tests
Warranty	1 Year	1 Year	1 Year	1 Year
PRICE	$99.95	$229.95	$309.95	$349.95

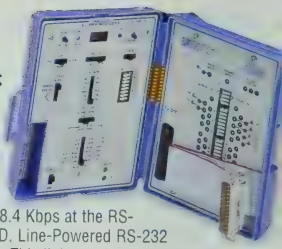
Mini Gender Changer

9 Pin (Female to Female)
No. 119CO530 ..... $2.95
9 Pin (Male to Male)
No. 119CO531 ..... $2.95
15 Pin (Female to Female)
No. 119CO532 ..... $3.95
15 Pin (Male to Male)
No. 119CO533 ..... $3.75
25 Pin (Female to Female)
No. 119CO534 ..... $2.95
25 Pin (Male to Male)
No. 119CO535 ..... $2.95



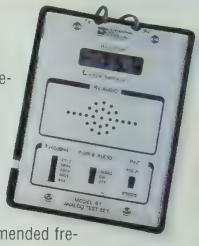
TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

IDS Pocket BERT Test Set Model 72/62



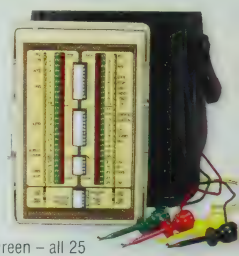
The Model 72/62 Pocket BERT performs bit error rate testing at synchronous data rates to 72 Kbps, asynchronous data rates to 38.4 Kbps at the RS-232-C interface. Dual LED. Line-Powered RS-232 Breakout Box is included. This lightweight unit is perfect for performing bit error rate tests on sync/async modems, CSU/DSU's, and data networks. It counts the number of bit errors detected, calculates the percentage of error-free seconds on received pseudo-random data, and counts the mark-to-space or space-to-mark transitions on any RS-232-C/CCITT V.24 interface line. The Model 72/62 Pocket BERT generates Fox messages in ASCII, BAUDOT, and IPARS codes. Five pseudo-random test patterns from 63 to 65,000 bits long are generated. Includes internal rechargeable battery, 115 or 230 VAC wall-mounted recharger and AC power supply. ***Three-Year Warranty.***
No. 474TE072 ..... **$675.00**

IDS Model 91 Analog Test Set



Applications include: channel loss measurement of any 2 or 4 wire voice-grade telephone line; measuring modem transmit levels; monitoring signals in the high Z bridge mode; and conformity testing of the telephone line. The transmitter section generates five tones of 404, 1004, 2713, 2804 and 3804 Hz. The1004 Hz. tone is the Bell Telephone recommended frequency for measuring channel losses. The 2713 Hz. tone allows the user to activate Bell Telephone remote loopback equipment. The receiver can monitor and measure audio signal levels, and a four-digit LCD display provides a direct reading of Tx or Rx signals in the range of 0 to -50.0 dBm, ±0.5dBm. A speaker monitors signals present on the line. The 12 oz. unit measures only 5.3" x 4.1" x 1.8". Four AA batteries (included) provide 25 hours of continuous use. ***Three-Year Warranty.*** **(USA)**
No. 474TE091 ..... **$395.00**

Datapak™



This combination couples our industry standard Datatracker with the new Autofox and complete accessories for both in a single convenient carrying case – an outstanding value!
No. 281ME006 ..... **$649.00**

Datatracker Performance Pak™

Through the use of 100 high efficiency LEDs – 50 red and 50 green – all 25 lines on both sides of the interface are monitored for high/low off and clocking signals simultaneously. Designed using high efficiency LEDs which pull less than 1.75 mA making it transparent to interfaces (a 9V battery included for testing or tying a line high or low). For cable testing, "strobe", the extended test, points to provide an analysis of your cable's configuration, continuity, shorts or opens in less than 30 seconds. Installed cables can also be tested when used with optional accessories: Cable test adapter (CTA-7) or Minitracker Plus (MT-41). Optional adapter for nine pin (CA-21, CA-22) and fifteen pin (CA-31, CA-32) cables are also available to allow for broader industry use. The Performance Pak™ comes with four jumper leads, two 4 ft. "Y" cables, padded carrying case with accessories pouch and a 55-page instruction manual/interfacing guide.
No. 281ME004 ..... **$240.00**

WAVETEK®

LT8000 Series Cable Testers

The LT8000 Series Cable Testers provide all the cable test capability and performance you need now and allow an upgrade path to the emerging cable standards of the future. Three models to choose from means the right cable tester for your installation and troubleshooting needs for current and emerging certification standards from 1 to 300MHz. Troubleshoot, verify and certify cable with these features: Cable Types UTP/ScTP/FTP; Cat 3,4,5; IBM STP Type 1,2,6; Coax: 10Base2, and 10Base5.

LEASING AVAILABLE!

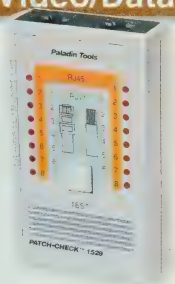
Model LT8100A
Includes: Display & Remote Handsets w/rubber boots, 2 NiMH batteries, 2 Basic Link Adapters, Calibration Adapter, 2 AC Adapters/Chargers, Serial I/F Cable, Record Management Software, Soft Carrying Case, and User's Guide.

Model LT8155A
Includes: Display & Remote Handsets w/rubber boots, 2 NiMH batteries, 2 Basic Link Adapters, 2 Channel Link Adapters, Calibration Adapter, 2 AC Adapters/Chargers, Serial I/F Cable, Record Management Software, Soft Carrying Case, and User's Guide.

Model LT8600
Includes: Display & Remote Handsets w/rubber boots, 2 NiMH batteries, 2 Basic Link Adapters, 2 Channel Link Adapters, Calibration Adapter, 2 AC Adapters/Chargers, Serial I/F Cable, Record Management Software, Soft Carrying Case, and User's Guide.

JUST THE FACTS			
TT No.	**184TE810**	**184TE815**	**184TE860**
Model	**LT8100A**	**LT8155A**	**LT8600**
Band Width	100MHz	155MHz	300MHz
Storage Capacity	150 Autotests	1500 Autotests	
Range/Resolution	0-1100ft./1ft.	0-1100 ft./1ft.	0-2000ft./1ft
Delay	0-4000 ns	0-4000 ns	0-8000 ns
Average Impedance	35-180Ω	35-180Ω	35-180Ω
Capacitance (Bulk)	0-100 nF	0-100 nF	0-100 nF
Capacitance (per ft.)	0-100 pF/ft.	0-100 pF/ft.	0-100 pF/ft.
DC Loop Resistance	0-400Ω	0-400Ω	0-200Ω
Attenuation	1-100MHz	1-155MHz	1-300MHz
NEXT	1-100MHz	1-155MHz	1-300MHz
PRICE	**$2495.00**	**$3995.00**	**$4995.00**

Patch Check



For testing the continuity of telephone & computer data-link wiring using RJ11 and RJ45 plugs. Tests both RJ11 and RJ45 cord sets and compares up to eight connections. Automatic test cycle with push-button operation. This hand-held instrument comes with durable, high-impact case.
No. 618TE529 ..... **$59.00**

Paladin Tools®

PC Cable-Check 1570

Test computer cables for Opens, Shorts and Cross Connection. PC Cable Check 1570 tests DB9, 15, 15HD, 25-pin parallel, RJ11/45 telephone plugs, Centronics 36, and Coax RG58/59/62 BNC showing a PASS or FAIL diagnosis and location of wiring problem. 9V battery included.
No. 618ME570 ..... **$158.30**

Dataline Surge Suppressors

A small initial investment in dataline surge protection can avoid major damage. Available for virtually every interface type, including 10Base-T, 10Base-2, 10Base-5, AUI, token ring, DB9, DB25, RS-232, RS-422, T1/DDS, CATV or phone lines.

TT No.	Protects	PRICE
794TE113	100Base-T, 10Base-T, token ring, AS/400/Sys3x, RS422	$29.95
794TE114	Single and 2-line telephone	$29.50
794TE116	8-port ethernet, token ring, RS422/423/485	$279.00
794PR656	10Base-2 ethernet cards, T version	$39.95
794TE120	RS-232 DB9	$74.95
794TE121	RS-232 DB9	$24.50
794TE115	Digital & leased lines, T1 & ISDN interfaces	$65.95
794TE118	Coaxial cable lines	$39.95
794TE117	10Base-2 ethernet	$27.95
794TE604	RS-232	$29.95
794TE119	RS-232 DB9	$35.75
794TE605	Twinaxial AS400/Sys3x	$52.95
794PR606	Ethernet AUI ports	$52.95
794PR607	10Base-5 ethernet	$47.95

Multi-Network Cable Tester

The Multi-Network Cable Tester tests thin Ethernet (BNC), 10 Base T (UTP/STP), 356A, TIA-568A, TIA-568B, and Token Ring cables within a few seconds. It detects miswiring, polarization, and continuity. Can also test the ground of shielded twisted pair cables. With the remote unit, remotely test installed cable either on wall plated of patch cable.
No. 310TE230 ..... **$79.00**

Deluxe Multi-Network Modular Tester

The Deluxe Multi-Network Modular Tester reads the correct pin configuration of 10BaseT cable (Category 5), 10 Base2 cable (coax) and RJ45/RJ-11 modular cables, 356A, TIA-568A. TIA-568B and Token Ring cables by comparing one transmitting end to the corresponding receiving end. With the remote kit it can test cables installed far away either on wall plate or patch panel up to 1000ft away. Verify continuity, opens, shorts, and cross connects. Features auto or manual scan for pin-out indicators.
Includes: (1) master box, (1) remote box, (2) BNC 15cm adapter cable, (1) BNC M/M adapter, (1) RJ45 15cm Modular cable, (1) carry bag.
No. 310TE231 ..... **$89.00**

Remote Network Cable Analyzer

Read your Ethernet twisted pair cable status easily, testing the cable for opens, shorts, cross, and reversed pairs in seconds. Test twisted pair cable over 450ft, and split pair is detected in minimum length of 2ft. If cross talk exists in excess of 3dB at 3.5MHz in any two pairs, the split pairs are reported.
Includes: (1) master unit; (1) remote unit. The remote unit is designed to be lodged into the master unit so the remote unit will not be lost.
No. 310TE240 ..... **$169.00**

Remote Network Cable Tester

The Remote Network Cable Tester is an easy and effective cable tester which can test all the wiring faults of 10Base2 (Coax), 10BaseTx, 356A, TIA-568A, TIA-568B and Token Ring cables. It can identify not only the wiring faults, such as open, shorted, reversed, crossed and split pairs, but also identify up to four different cables at one end. A large flashing LED displays the fault code. The remote identifiers are provided to make a remote test. 9VDC battery (not included).
No. 310TE235 ..... **$225.00**

FLUKE

LEASING AVAILABLE

DSP-4000 Digital CableAnalyzer™

Identify and locate opens, breaks, short circuits, and anomalies in cabling links. The DSP-4000 graphically displays the cabling link and the location of the defect. The most sophisticated tester in the series, the DSP-4000 has the power to troubleshoot and certify high-speed copper and fiber cabling system performance to a higher level. SP DSP-4000 tests to 350MHz; tests beyond standards to performance levels specified by leading component manufacturers, and includes expanded test parameters to address upcoming standards, advanced digital diagnostics, high-bandwidth test capability to 350MHz, extremely fast test times, and extensive optional fiber-testing capability. The patented Time Domain Crosstalk analyzer pinpoints the position of a crosstalk problem and shows how far the defect is-in feet or meters-from the tester.
One-Year Warranty. **(USA)**

LEASING AVAILABLE! CE GSA Advantage!

Soft Carry Case
Soft carry case for the DSP-4000
One-Year Warranty.
No. 374AC158 ..... **$120.00**

DSP-4000 Fiber Option
Easily attaches to the DSP-4000 to allow bi-directional testing of multi-mode fiber links at 850nm and 1300nm, testing two fibers at a time!
One-Year Warranty.
No. 374AC159 ..... **$3995.00**

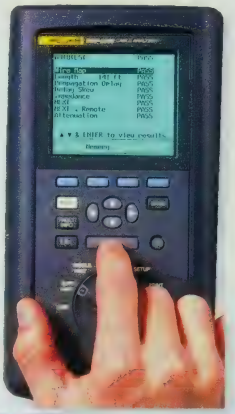
DSP-4000 Channel Adapter
A set of two link interface adapters to troubleshoot and certify Cat 5 and CAT 5E channels.
One-Year Warranty.
No. 374AC161 ..... **$245.00**

DSP-4000 Basic Link Adapter
A set of two link interface adapters to troubleshoot and certify CAT 5 and CAT 5E basic links.
One-Year Warranty.
No. 374AC160 ..... **$245.00**

Traffic/Channel Adapter
Troubleshoot and certify CAT 5, CAT5E, and monitor network traffic.
One-Year Warranty.
No. 374AC162 ..... **$245.00**

Basic Link Adapter for 110 Blocks
The Basic Link Adapter to be used with 110 block installations.
One-Year Warranty.
No. 374AC163 ..... **$145.00**

The New DSP-2000 CableAnalyzer™



If you're installing and maintaining high speed networks, such as Fast Ethernet, the DSP-2000 is your choice. Cable systems tested by older analog cable scanners may not guarantee cabling performance when high-speed networks are installed. Not only does the DSP-2000 let you certify these links with Accuracy Level II-the highest level of confidence-but its unique FAULT INFO feature shows you exactly where the link fails. The diagnostics are displayed in a graphic representation and in plain language. Whether it's poor workmanship, a bad patch cord, or improper cabling, FAULT INFO lets you know how to get your link ready for the demands of high-speed networking. The DSP-2000 also lets you monitor both 10BASE-T and 100BASE-TX networks, so that you can immediately identify whether the cable link is the source of the problem. This saves time and assures that your high-speed network is really ready to go. Find active ports, measure utilization and collisions, and detect jabbering workstations, all with a single test.
No. DSP-2000 ..... **$4595.00**

NIST CERTIFICATE GSA Advantage!

DSP-4100 Digital CableAnalyzer™ Kit

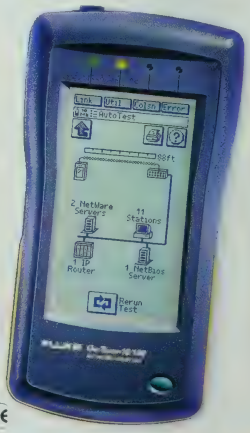
New!

Deliver consistent repeatable accuracy with this Digital CableAnalyzer. Features superior diagnostics making troubleshooting fast and easy. The intuitive user interface makes learning easy and graphic reports show professional certification results. **Includes:** (1) CableAnalyzer; (1) Smart Remote; (1) CableManager Software Version 4.0; 16MB MultiMedia Card; PC Card Reader; (1) Quick Reference Card; (2) Talk Sets; (2) AC Adapter/Changers, (2) Instrument Straps; (2) Cat 5E Basic Link Adapters; (2) Cat 5E Channel Adapters: (1) Coax Patch Cable; (1) Calibration Module; (1) RS-232 Serial Cable; (1) RJ-45 to BNC Adapter Cables. **(USA)**
No. 374TE411 (DSP-4100).... **$5995.00**

DSP-4100E Upgrade Kit
If you own a DSP-4000 Digital CableAnalyzer, you can upgrade to the DSP4100 Digital CableAnalyzer with this Upgrade Kit. The kit contains instructions for contacting Fluke Networks to schedule your upgrade with and authorized Fluke Service Center. Just send in your DSP-4000, and a technician will upgrade your DSP-4000 main and remote units and return them with a removable 16-MB memory card, a PC card reader, Fluke CableManager™ Software v4.0 and a user manual. **Includes:** Hardware to upgrade DSP-4000 Main and Smart Remote Units to DSP-4100; 16MB Multimedia Card, PC Card Reader, CableManager Software Version 4.0 and a User Manual. **(USA)**
No. 374TE412 (DSP-4100E) **$600.00**

Memory Cards for the DSP-4100 Digital CableAnalyzer
No. 374TE414 (DSP-MMC16) 16 Mbytes **$65.00**
No. 374TE415 (DSP-MMC32) 32 Mbytes **$135.00**
No. 374TE416 (DSP-MCR-P) Memory Card Reader **$65.00**

OneTouch™ Network Assistant



Whether it's verifying network connections or tracking down problems, the quicker the job is done, the more productive your organization will be. *The OneTouch Network Assistant* makes it easy to prove network connectivity on both 10 Mbps and 100 Mbps Ethernet networks. A single touch provides front-line network support personnel with a graphical representation of the local network segment from the cabling all the way to local servers and routers. This meter identifies the cabling, adapter card or network problem through an extensive set of network tests. The easy-to-use touch-screen graphical interface make less experienced staff more effective, saving time and training costs. Efficient front-line troubleshooting increases network uptime and frees your experienced personnel.
OneTouch-10 Network Assistant. 10 MBPS Network Tester.
No. 374TL010 ..... **$2695.00**
OneTouch-10/100 Network Assistant. 10/100 MBPS Network Tester.
No. 374TL001 ..... **$4995.00**

CE GSA Advantage! LEASING AVAILABLE!

New!

FLUKE

LEASING AVAILABLE!

Fiber Test Installer Packages

The Fiber Test Installer Package is ideal for contractors who have significant operations in fiber installation and need automated recording of test data, results management, and report generation. This package is better suited for contractors who are installing fewer fiber links and have less need for automated storage of test results.

JUST THE FACTS		
Vendor #	**FTK100**	**FTK200**
TT No.	**374TE102**	**374TE103**
Type of Product	Optical Fiber Meter And Source	Optical Fiber Meter And Source
Product Description	For installers who Install fewer fiber Links and don't need Automated storage of Test results.	For installer whose fiber testing needs have grown to include automated storage of Test data, results Management, and Report generation.
Fiber Meter		
Wavelength	850nm-1550nm	850nm-1550nm
Measurement Range	+6 dBm to -50 dBm	+6 dBm to -50 dBm
Resolution	0.01dB	0.01dB
Accuracy	±0.25dB	±0.25dB
Fiber Optic Source		
Wavelength	850nm to 1300nm	850nm to 1300nm
Output Power	-20 dBm to 62.5µm	-20 dBm to 62.5µm
Max. Output	200µw	
Peak Power Rating		
Dimensions	15.1" x 11.6" x 4.5"	15.1" x 11.6" x 4.5"
CE Compliant	Yes	Yes
Warranty	1-Year	1-Year
Price	**$1195.00**	**$1695.00**

JUST THE FACTS		
Vendor #	**FT120**	**FT140**
TT No.	**374TE105**	**374TE106**
Type of Product	Optical Fiber Inspection Scope	Optical Fiber Inspection Scope
Product Description	Necessary for ensuring clean fiber connections on multimode fiber links.	Inspecting singlemode fiber to ensure clean, smooth terminations.
Fiber Meter		
Wavelength	850nm-1550nm	850nm-1550nm
Dimensions	10.4" x 7.3" x 4.0"	10.4" x 7.3" x 4.0"
CE Compliant	Yes	Yes
Warranty	1-Year	1-Year
Price	**$295.00**	**$395.00**

LEASING AVAILABLE!

NetTool™ Tester

Whether you're a network technician or a PC technician on the help desk, you know what a challenge it can be to resolve a troublesome desktop-to-network connectivity problem. Put an end to the problem with the new NetTool™ tester. The NetTool™ tester combines cable, network, PC configuration testing in one palm-sized tool, so you'll have everything you need to quickly resolve even the toughest connectivity problems. Conclusively identifies a jack as Ethernet, Phone, Token Ring or inactive. Helps frontline network technicians quickly verify and troubleshoot desktop-to-network connectivity. Resolves complex PC network configuration issues such as IP address, default gateway, and email and web servers. Checks links pulse for speed polarity, duplex, level information and receive pair. Simultaneously monitors network health for full-duplex connections, with individual counts for both the desktop and the network conversations. Shows protocol mismatches between the PC and the network, and identifies unwanted protocols that waste valuable bandwidth. Includes cable-testing capability, eliminating the need for a separate cable tester. **(USA)**

NetTool Standard
Provides single-ended testing of a PC, cable or network drop.
One-Year Warranty
No. 374TE111 (Fluke NT) **$895.00**

NetTool Inline
Allows you to look at a PC and the network simultaneously.
One-Year Warranty
No. 374TE112 (Fluke NT-IL) **$1495.00**

WAVETEK

Visual Fault Finder

The Visual Fault Finder is a first-line tool used to verify continuity, test, and find breaks in LANs, fiber data links and loops, telephone, shipboard and other vessels, and intrinsically safe process applications where fiber is used instead of copper. Use it stand-alone or in conjunction with an OTDR to pinpoint faults. The VFF5 is useful over a distance of 5km (3 miles) and can be used with single-mode and multimode cable. It is packaged in a pocket-sized, rugged metal housing and is fitted with a standard ST connector. **Includes:** carrying case, lens cap, batteries, lanyard, and instruction sheet.
No. 184TE005 ..... **$395.00**

OMNIFiber

One adapter does it all, the OmniFiber adapters transform Omniscanner into a multimode and singlemode fiber certification test. For multimode fibers, one-button Autotest measure length, loss and propagation delay on both transmit and receive fibers at 850 and 1300 nm simultaneously. With singlemode fiber, autotests measure loss on transmit and receive fibers at 1310 nm. Autotests compare results to appropriate standards providing a simple PASS/FAIL indication of the link. **Includes:** OmniFiber and OmniFiber remote units; Carry case; (2) meter 62.5 / 7125 multimode dual fiber optic cables; SC or ST-Style coupling sleeves; optic pads; software upgrade CD. **(USA)**

New!

No. 561TE232 62.5 ST **$2995.00**
No. 561TE235 50 ST..... **$2995.00**
No. 561TE234 62.5 SC **$2995.00**
No. 561TE233 50 SC..... **$2995.00**

LEASING AVAILABLE!

SimpliFiber™ Kit

New!

SimpliFiber is designed to help you quickly and easily evaluate the performance of optical fiber transmission paths, and measure multimode and singlemode fiber loss. The kit consists of two units: the SimpliFiber Source and the SimpliFiber Meter. A dual wavelength 850/1300nm LED source unit is included, and a power meter calibrated for accuracy at all four sources wavelength. The sources and meter are engineered to work together. The automatic wavelength detection feature of the SimpliFiber Meter identifies the Source's wavelength and sets itself, simplifying multi-wavelength tests and preventing costly measurement errors. The SimpliFiber Meter features the ability to set a reference power level, allowing a direct display of cable plant power loss. Simplifiber can save to on-board non-volatile memory up to 100 measurements. **Specs:** SimpliFiber Meter: Calibrated Wavelength: 850nm, 1300nm, 1310nm, 1550nm; Dynamic Range: +3 to -55 dBm; Serial Port: RS-232, DB9; Memory: 100; Accuracy/Linearity: (0.25 dB; Optical Adapter: SC or ST; Power Source: (2) AA batteries; Battery Life: 250 hrs; Calibration Period: 12 Months; SimpliFiber 850/1300: Source Type: Light Emitting Diode; SimpliFiber 1310: Source Type: Laser; SimpliFiber 1550: Source Type: Laser. Includes: (1) SimpliFiber Meter; (1) SimpliFiber 850/1300 LED Source; (1) Either SC or ST-Style connector adapters; (1) Scanlink Software and a serial cable for PC uploads; (4) AA batteries; (1) optic cleaning pad; (1) carrying case; (1) guide. **(USA)**

No. 516TE236 ST Kit..... **$1295.00**
No. 516TE238 ST 1310 Source **$995.00**
No. 516TE241 ST 1550 Source..... **$1495.00**
No. 516TE237 SC Kit **$1295.00**
No. 516TE239 SC 1310 Source **$995.00**
No. 516TE242 SC 1550 Source..... **$1495.00**

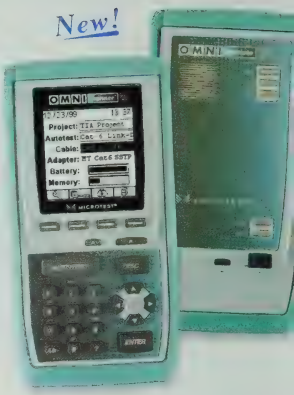
LEASING AVAILABLE!

Microscanner™

Microscanner is an easy-to-use, affordable,pocket-sized cable test tool that confirms continuity, wiring configuration and cable fault location in twisted-pair cabling. Microscanner's length function uses TDR to measure the full length of a cable and individual pair lengths, even into a hub. Microscanner also generates a tone for locating hidden cables, and matches cables to offices during adds, moves, and changes. **(USA)**

No. 561TE820 ..... **$399.00**

OMNIScanner™ 2



New!

This powerful new tool is guaranteed to certify Category 6 even before standards have been finalized. In six vital areas, the all-digital OMNIScanner2 takes your cable testing process further, and faster, than any other network tester you could choose. Easy to set up the vendor-specific cable libraries in OMNIScanner2 makes setting up and executing your test operations easy. Easy on-site use: simple, intuitive and commands make training your technicians easy. Designed with a clear, backlit keypad, tough protective casing and NiMH batteries. Has MultiMediaCard flash storage, storing more than 10,000 tests. Features: Certifies Category 5, 5E, 6 and 7 cabling up to 300MHz; provides super-fast Autotest results and the most efficient overall testing process; Complies completely with the newest TIA/ISO/IEC standards; Exceeds proposed Level IV accuracy requirements; Matches the accuracy of a laboratory network analyzer; Features dynamic range of 100 dB to accurately measure the faintest signals; Is the only field tester to measure link bandwidth; Provides advanced S-Bands™ diagnostics to pinpoint cause and location of link failures; Supports lightning-fast download times through a USB port; Stores over 10,000 autotests on Compact MMC card; Supports remote control from a PC and customizable autotest/cable libraries; stores full graphic data for all measurements; **Specs:** Power Source: removable, rechargeable 9.6V @ 1700 mA-Hr NiMH batteries; Charging Time: 3.5 hrs; Battery life: 10 hours operation AC: 15 VDC - 1 amp AC adapter for continuous operation or charging. Communication Ports: Connector: Cable: DB-9; Baud Rate: 300 to 38,400 baud; Parity: None; Length: 8-bits; Handshaking: None, RTS/CTS and XON/XOFF; USB port. Memory: Control: Flash Memory allows electronic upgrading of OMNIScanner2/ OMNIScanner2 programs; Test Storage: Up to 1000 Autotest results can be stored in flash memory; Full graphical data can be stored; MMC (MultiMedia Card). Autotest Functions: Full suite of tests to determine if cable meets generic cabling or network type requirements; TIA (Cat 5, 5E, and 6 for both links and Channels; ISO 11801 (Class C, D, E, and F) 10BaseT, 100Base-X, 1000Base-T, ATM 155, Australian/New Zealand Standard (Class D Link & Channel, Class C Link & Channel); User-Definable Autotests; Test Functions Include: NEXT (Near End Crosstalk); Return Loss; Attenuation; ELFEXT (Equal Level FEXT); ACR (Attenuation to Crosstalk Ratio); Length: Range: 0 to maximum distance, where max. distance = 457m (1500 ft) for twisted pair cable; Resistance: Range: 0-500Ω; Power Sum NEXT, ACR, ELFEXT. ***2-Year Warranty.*** **(USA)**

No. 561TE260..... **$5995.00**

PentaScanner 350 with 2-way Injector+

LEASING AVAILABLE!

Test Category 5 links for superior performance with the PentaScanner 350 with Performance Grading. Performance grading measures and rates the quality of high performance links by analyzing the headroom available for high-speed applications. PentaScanner 350 can actually differentiate links that are marginally passing from those that have up to 70 times better signal-to-noise ratios. Includes the two-way Injector+ for measuring Near-End Crosstalk (NEXT) from both ends of an installed cable. **Includes:** Skew, Length, Cable Trace, Return Loss, PowerSum NEXT, Office Locator. **(USA)**

No. 561TE000 ..... **$3995.00**

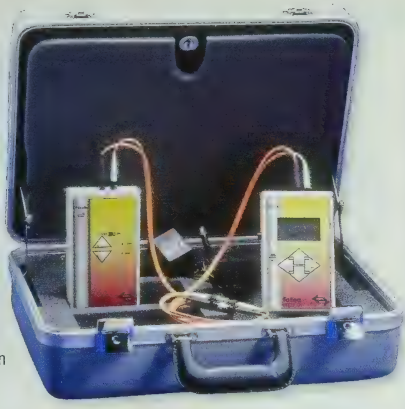
Penta Scanner+ with Super-Injector+

To ensure that Category 5 or ISO Class D cable installations are of the highest quality, use PentaScanner+ with Super-Injector+. Handheld, designed for field use and completely portable, PentaScanner+ provides accuracy indistinguishable from a network analyzer. **Includes:** Skew, Length, Cable Trace, Return Loss, PowerSum NEXT and office locator. **(USA)**

No. 561TE500..... **$2995.00**

FOTEC

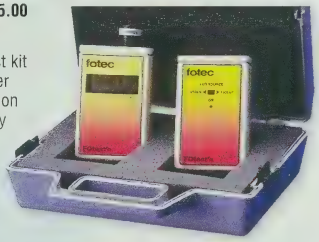
Duplex Cable Tester and Certifier w/ Fotalk Talkset



The Fotest'R ACT 2 Duplex Cable Tester is a unique tester for multimode fiber optic links. Links always involve fibers in pairs, so the ACT2 was designed to test pairs of cables simultaneously, measuring loss at both 850 and 1300nm and estimating cable length. Using the ACT 2 meter and a SOLO source at opposite ends of a cable, you can test two fibers very quickly, reducing the time and cost of comprehensive fiber optic link testing and certification. Data up to 500 fibers and 250 cables can be stored in an internal database for readout on a PC. The built-in talkset allows crews to communicate over the fibers and speed up testing even more. **(USA)**

No. 353TE002 ..... **$1995.00**

FOtest'R Test Kit

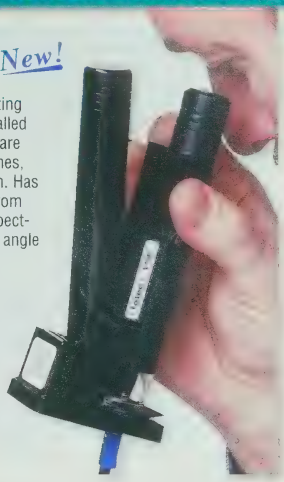


The FOtest'R Test Kit is a basic test kit designed to be the lowest cost fiber optic test kit you can buy. For use on premises cables this simply is easy to use, all you need are reference cables and you're ready to test fiber. **(USA)**

No. 353TE850..... **$695.00**

100X Microscope Bare Fiber Stage

New!



100X Microscope is perfect for inspecting connector finish during polishing, installed connectors for dirt or scratches, and bare fiber before splicing. Magnifies 100 times, ideal for connector and fiber inspection. Has a built-in illuminator, which operates from two AA batteries and capability for inspecting connectors at both straight on and angle views. **(USA)**

No. 353IN100 ..... **$125.00**

Connector Adapter for the 100X Microscope Fiber Stage

No. 353AC276 Unistage, fits, ST, SC, FC **$30.00**

Fotest'R Fiber Optic Power Meter

Designed to test most LANs, including Unidapter this meter is perfect for you if you want to have test equipment to troubleshoot your network in case of problems but don't want to spend a lot of money. **Specs:** Calibration: 850/1300; Range: 0 to -45 dBm. **(USA)**

No. 353TE276 ..... **$289.00**

Mini Source

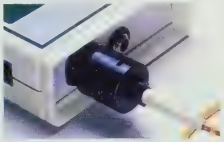
New!

This Mini Source covers all multimode fibers and the 665 nm LED doubles as a FOtracer for continuity checking and tracing. The multimode source features ST connectors and has a wavelength of 850 and 1300. **(USA)**

No. 353TE770 ..... **$595.00**

Connectors

New!



Lucent LC

No. 353AC278 ..... **$100.00**

MT-RJ

No. 353AC279 ..... **$80.00**

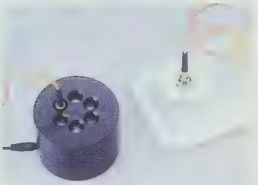
FOtracer Visual Fiber Tracer and Fault Locator

The FOtracer is designed to check continuity, trace fibers and even locate faults. Designed with a visible light source that allows you to visually test the fiber. **Specs:** Fiber: MM; Source: Flashlight; Battery: AAA; Connector: ST, SC, FC. **(USA)**

New!

No. 353TE123 ..... **$29.00**

Fiber U Portable Connector Curing Oven



The Fiber U Portable Connector Curing Oven allows you to terminate with epoxy/polish connectors almost as fast as any other connectors. It's really portable, operating off 12V from an AC adapter, vehicle cable or optional battery. **Includes:** Oven with adapter, battery and case. **(USA)**

No. 353PR012 ..... **$450.00**

540 Series Tone Probe Set

WAVETEK

Probe detects tones and provides a clear, loud audible signal to tell the user of the correct wire carrying the tone signal. An LED light provides a visual indication. For telco users who prefer to listen through a buttset, external terminals on the probe provides quick connection. This tone generator includes both an RJ11 connector for quick plug-in to standard telephone jacks and datacom RJ45 jacks, and a pair of alligator clips for quick attachment to any wire pair.

No. 184TE540 Tone Generator and Speaker Probe **$79.95**

No. 184TE541 Tone Generator Module **$29.95**

No. 184TE542 Inductive Speaker Probe..... **$54.95**

Psiberdata LanMaster™ 20 Link Tester

Quickly test fast Ethernet (100baseTX) and standard Ethernet (10baseT) links with the LanMaster™ 20 Link Tester. **Includes:** autosensing, auto negotiation and full duplex capabilities that are optional requirements to the fast ethernet (IEEE 802.3u) standard. LanMaster™ 20 decodes the link signals and displays the exact configuration of the equipment connected to the link. Verifies Link connectivity to the far end, test for reported faults and determines polarity of the outlet or cable.

No. 613TE020 (Model 20) **$149.00**

3M Hotmelt Fiber Optic Termination Kit

New!

3M Hotmelt Fiber Optic Termination Kit provides the tools and materials necessary to terminate ST and SC connectors. **Kit includes:** (1) cable preparation with polishing tool; (1) fiber-view microscope; (1) lightweight oven pre-set for proper operating temperatures; (1) connector cooling fixture; (1) specially designed connector holders. **(USA)**

No. 105PR635 ..... **$1224.50**

LEASING AVAILABLE!

3M Hotmelt Termination Kit

3M Hotmelt Termination Kit provides the tools and materials necessary to terminate ST and SC connectors. **Kit includes:** (1) cable preparation with polishing tool; (1) fiber-view microscope; (1) lightweight oven pre-set; (1) connector cooling fixture; (1) connector holder. **(USA)**

No. 105PR251 ..... **$21.00**

New!

TEC-TUFF

ADSL ANALOG/DIGITAL SUBSCRIBER LINE (ADSL) SERVICE KIT - 6 PC

Specially designed by Techni-Tool, our ADSL (Analog/Digital Subscriber Line) Service Kit allow your techs and in-house users to install, perform go/no-go testing, verify and troubleshoot ADSL lines, Synchronize DSLAM before or after the splitter, and locate communication-critical problems.

Your kit includes: a TS45 ADSL Test Set with a safe circuit test that allows technicians to butt in on a live DSL line to test POTS, without downing data service; a TS1000 ADSL Test Set to test, verify and trouble shoot test ADSL lines and synchronize DSLAM; a TS100 Cable Fault Finder to simplify measuring distance to opens and shorts — all from one end of the cable; an ADSL/POTS Splitter; an ergonomic Impact Tool with a 66 and 110 blade; all housed in a molded black structural resin case with neoprene "O" seal and purge valve That is watertight to a depth of 30 feet. **(USA)**

No. 2013.....**$3,699.00**

3M Crimplok™ Field Termination Kit

New! **3M**

Crimplok™ Field Termination Kit provides all the tools and materials necessary to terminate the major fiber optic connectors in the industry. This kit allows for clean and simple terminations, with fewer parts and tools, without the need for service technician to come and repair.

Includes: (1) Jack stripper; (1) crimp tool; (1) scissors; (1) fiber stripper; (1) polishing tool; (1) Activation tool with ST & SC heads; (1) polishing film; (1) Fiber-view microscope; (1) Alcohol bottle; (1) lint-free cloths; (1) 3M scotch© tape; (1) termination manual; (1) soft nylon carrying case. **(USA)**

No. 105PR695 ..... **$699.75**

Crimplok™ ST Connector

No epoxy needed, these connectors are ideal for quickly making fiber connections at the desk or emergency restoration work.

No. 105PR690 ..... **$9.65**

Crimplok™ SC Connector

The Crimplok™ SC Connector combines the speed of non-adhesive connectors with the performance characteristics of epoxy and hot-melt connectors. Ideal solutions for emergency restoration work.

No. 105PR691 ..... **$11.40**

3M ST/SC Fiber Termination Kit

Fiber connector termination kit contains all the tools, and consumables required for termination of up to 60 SC or ST connectors. Includes: adhesive, crimp tool, polishing tools, fiber stripper, polishing plate, fiber scriber, polishing pad, cable stripper, polishing films, cable stripper template, alcohol-soaked wipes and dry wipes, alcohol/water bottles, Kevlar-cutting scissors, portable microscope with adapter and syringes.

No. 708TL300 ..... **$1599.00**

LEASING AVAILABLE!

Fiber Optics Micro Stripper

Your Fiber Optic Stripper features interchangeable stripping and cutting blades and adjusts to strip a variety of wire sizes and types of insulation. Tool design features include a perfect tool joint system, unbreakable integrated opening spring and antistatic grips. Strips wire, AWG 30 to 40 dia. (0.08 - 0.25/.010 - .003) including stranded wires. **(USA)**

No. 272PL552 ..... **$92.50**

TECHNI-TOOL
Phone: 1-800-832-486
or 1-610-941-2400

No Pressure Required!

Fiber Optic Cleaver

Insert. Close. Pull. That's all you need to do with this "No Pressure" cleaver that accommodates glass fibers with 125µm nominal cladding diameters. Accommodates fibers in cable or coated form. A factory-replaceable carbide blade is designed to yield consistent cleaves for up to 5,000 cleaves. The cleave length is adjustable from 6.5mm to 20mm. The cleaver will leave an endface angle of 2° or less for 100% of all cleaves. 5.12" OAL. **(USA)**

No. 250ST125 ..... **$211.85**

Fiber Optic Stripper

Features a precision 1.0mm dia. stripping hole to strip the fiber jacket. A 140µm dia. hole and V-opening in the blade to strip a 250µm buffer coating from 125µm fiber. Will not scratch or nick glass fiber. 6-1/2" OAL. **(USA)**

No. 250ST001 ..... **$28.80**

No-Nik® Wire Stripper

For removing insulation without nicks, cuts or scrapes. Cutting apertures accurate to 0 to +.0127mm. Each tool is made to strip one wire size only. Handles are color-coded by size of cutter. Cutting blades are finest razor blade steel. No adjustment of any kind ever needed. 5-3/8" OAL. **(USA)**

No. 250ST015 Cutting Dia. .008, 34 AWG, Red ..... (1-5) **$29.20** (6+) **$25.20**
No. 250ST016 Cutting Dia. .010, 34 AWG, Lt. Blue ..... (1-5) **$29.20** (6+) **$25.20**
No. 250ST018 Cutting Dia. .012, 32 AWG, White..... (1-5) **$29.20** (6+) **$25.20**
No. 250ST020 Cutting Dia. .014, 30 AWG, Dk. Green .. (1-5) **$29.20** (6+) **$25.20**
No. 250ST022 Cutting Dia. .016, 30 AWG, Orange ..... (1-5) **$29.20** (6+) **$25.20**
No. 250ST030 Cutting Dia. .025, 26 AWG, Lt. Green .... (1-5) **$29.20** (6+) **$25.20**

***NOTE: Select the No-Nik diameter that is marginally larger than the conductor.**

Other Sizes Available-Call for Details

No-Nik® Fiber Optic Strippers & Cleavers

Plastic heads, which make contact only with the buffer, center and support your work on both sides. Accurate to 0 to +.0127mm. No adjustments necessary. 5-1/4" OAL

No. 250ST175 Cutting Dia. 175 microns; Mustard **$29.65**
No. 250ST200 Cutting Dia. 203 microns; Red..... **$29.65**
No. 250ST250 Cutting Dia. 254 microns; Lt. Blue..... **$29.65**
No. 250ST300 Cutting Dia. 305 microns; White **$29.65**

For plastic fiber, brown handle, minimum stripping blade diameter 1,118µm, minimum stripping blade diameter .044".
No. 250PL1118 ..... **$25.95**

For plastic fiber, clear handle, minimum stripping blade diameter 1,372µm, minimum stripping blade diameter .054".
No. 250PL1372 ..... **$25.95**

No-Nik® Fiber Optic Jacket Strippers

Cleanly remove the outside jacket from fiberoptic cable. **Made in USA.**

No. 250ST438 Strips 0.75 mm and 1.00 mm **$7.60**

No. 250ST439 Strips 1.25 mm and 1.50 mm **$7.60**

Fiber-Safe™ Safety Kit

This fiber optic safety kit is designed specifically for working safely with glass fiber. Your Kit Contains: 14" x 22" black vinyl work mat so you can see glass fiber; Fiber Scraps Trash Can to dispose of glass fiber; Teflon-coated Tweezers for splinter removal without shattering or breaking glass; 10 Bifurcated Swipes, containing 99% isopropyl alcohol; Safety Glasses, with single wraparound feature for additional protection. **(USA)**

No. 250TE950..... **$35.45**

No-Nik® Fiber Optic Stripper Kit - 3 pc

The most popular stripper size ranges: 203 microns, 254 microns and 305 microns. Vinyl case protects and affords convenient safe storage.

No. 250ST103..... **$99.95**

No-Nik® Fiber Optic Stripping Kit - 3 pc

Your kit comes in a zip storage case. It includes insulation stripper, high-leverage Kevlar® shears, and fiber optic jacket stripper. **(USA)**

No. 250ST931 Kit w/ 203 micron stripper Red **$73.90**

High Leverage Kevlar® Shear

This nonslip serrated blade provides the perfect solution for trimming back DuPont *Kevlar*®. Its high leverage design provides powerful cutting action, and it has cushioned handles for operator comfort. **(USA)**

No. 250PR086..... **$20.15**

Non-Thermal Micro-Strip® Fiber Optic Kit

Lightweight and compact, your precision 22-pc interchangeable Micro-Strip Kit contains the most-used components for fiber optic stripping. Includes: five cutter blade sets & tube locks: .0063, .008, .010, .044, .054; seven tube guides, dia: .010", .013", .021", .025", .040", (2.6. 3.1mm); two handle assemblies; cleaning brush; push-out tool and case.

No. 490ST002 ..... **$229.30**

Kevlar® Clip Cutter

New!

This Kevlar® Clip cuts Kevlar® fibers, filament, and tungsten wire easily. Designed with high carbon hot drop forged steel blades, with ergonomic design. **(USA)**
No. 431PR500 ..... **$12.45**

Electronics and Filament Scissors

Length of cut is 3/4". Hot drop forged. Straight blades. Polished blades and black handles. Coil wire spring. 5" OAL.
No. 272SC120 ..... **$18.95**

Electronic Snip

Shearing action of 1-1/2" cut. Pointed blades prevents peaks on fine wires and filaments. Also removes insulation and cuts light sheet metal. Latch holds blades closed. Cushion Grip handles. 6-1/2" OAL.
No. 272SC148 ..... **$24.20**

Fiber-Optic Shears

This high performance fiber-optic shear is for trimming Kevlar™ strands from fiber-optic cable. Designed with a metric scale on front blade for trimming strands to length and has serrated blades for gripping power. The spring-loaded handles latch for safety and ease of storage. Has orange trim for easy identification and location. **(USA)**
No. 403PR992 ..... **$23.75**

FISKARS®

2-in-1 Optical Fiber Stripper

This optical fiber stripper with two V-notch blades provides two tools in one. The large V-notch blade removes outer jacket insulation, and the small V-notch blade removes buffer and coating from 125μ fiber. **(USA)**
No. 462PR352 ..... **$34.95**

Fiber Optic Stripper

For stripping 250 micron buffer coating from 125 micron optical fiber. The .0055" (0.14mm) diameter hole and V-opening in blade allow for accurate buffer coating removal and prevents scratching or nicking of optical fiber. Factory set, it requires no adjustment. 5.375" OAL.
No. 680PL598 ..... **$33.10**

Strip PVC, Teflon, and More!

Precision Wire Strippers

New!

For fast, no-nick uniform stripping, simply set the matching-length gauge (50mm scale with 1mm grad.), insert wire matching gauge, press, pull and strip. Strippers are color-coded. (Germany)

For Fiber Optics
Core diameter 0.18mm-0.30mm
No. 217ST557 ....(Blue)..... **$76.20**

Precision Wire Stripper and Cutter

This adjustable precision wire stripper, with built in cutter, is easy to use and has precise stripping of finer wires, as used in electronics, telecommunication, etc. Hardened stripping and cutting blades for 30, 28, 26, 24, 22, 20AWG. (Germany)
No. 217SC759 ..... **$42.80**

Kevlar® Snips

Hot drop-forged solid steel with special materials and heat treatment. Serrations on one cutting edge give long life when cutting Kevlar®–regular shears are dulled after only a few cuts. **(USA)**
No. 272PR200 ..... **$54.25**

Kevlar Snips

To reduce fatigue hands these spring-action, 1" Kevlar snips feature a cushion grip and serrated blades. Great for Kevlar patch cords and thicker PVC jackets. 6-1/2" OAL. **(USA)**
No. 431PR744 ..... **$24.95**

Kevlar® Cutter

The high-carbon, steel frame and fine serrated blades cleanly cut Kevlar strength members found in fiber-optic cable. Soft handle grips make cutting comfortable. 6-1/2" OAL. (Japan)
No. 462PL348 ..... **$25.70**

Ergonomic Kevlar Shears

This high performance shear has steel blades lasts up to 15 times longer than standard steel blades. Both blades are serrated for superior gripping power. The high strength, glass filled nylon handles are acetone resistant for easy clean up. Has an adjustable heavy-duty rivet to maintain proper blade tension. **(USA)**
No. 403PR449 ..... **$40.35**

Ceramic Scissors

This scissor has a durable zirconia ceramic blade insert and carbon-fiber reinforced handles for cutting Fiberglass & Aramid Fabrics. 5" OAL. (Japan)
No. 496SC124 ..... **$45.00**

Ceramic Kevlar® Scissor

No ragged edges, just crisp, clean cuts. Ceramic blades stay sharp 50 times longer than metal. Large grips for easy holding. Convenient finger rest notches for stable cutting.
5-3/4" OAL.
No. 618SC1510 .... **$94.40**

Fiberoptic Jacket Stripper

This easy-to-use fiber optic stripper removes the outside jackets from fiberoptic cables while leaving the strip clean. Two stripping notches, one with cutting diameter of 1.25mm and one with a cutting diameter of 1.50mm can be used on several sizes of cable. **(USA)**
No. 250ST439 ..... **$7.60**

Tec-Tuff® Cable Knife Set

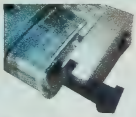
Cable skinning knife is made of the finest materials by dedicated professional craftsman.

Cable Splicer Kit
No. 490MI040 Knife, Scissor & Sheath **$18.90**
No. 623CA320 Knife & Scissor Sheath **$6.50**
No. 623ST055 Knife..... **$5.95**
No. 704SC010 Scissor..... **$8.40**
No. 623CA225 Knife Sheath only..... **$6.25**

Fiber Optic Scope and Adapter

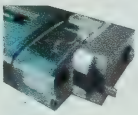
Make it simple to view ST/SC/FC, pre-encapsulated FDDI, and the ends of the fiber before and after the cleaving operation with the Fiber Optic Viewing Scope. The 200x-400x effective adapter provides image resolution comparable to a 200x or 400x fiber scope. 2AA batteries included.
No. 462PR330 ..... **$136.95**

100x Scope w/ MT-RJ Adapter



Includes the MT-RJ® small form factor RJ-45 footprint viewer, capable of viewing both fibers at 100 power without removing the connector from the scope. **(USA)**
No. 797PR905 ..... **$129.20**

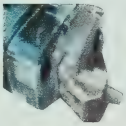
100x Scope w/ MT, MTP



View pre-encapsulated MT-RJ fiber blocks and MTP fiber blocks. Will view up to 12 fiber ribbons without removing fiber blocks from the scope. **(USA)**
No. 797PR902 ..... **$129.20**

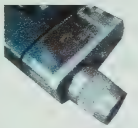
100x Inspection Scope with Single/Dual View LC Head

New dual viewing LC is designed to view any small form factor LC® connector in single or double captivated housings at 100 power. **(USA)**



No. 797PR025 ..... **$129.20**
Flat head adapter for 100x scope.
No. 797PR120 ..... **$25.40**
Angled head adapter for 100x scope.
No. 797PR122 ..... **$28.40**
Std. Knurl for flat or angle adapters (Universal adapter fits all ST, SC & FC connectors).
No. 797PR029 ..... **$8.95**
MT & MTP, or MT-RJ (RJ45 footprint) 100x adapter.
No. 797PR141 ..... **$86.70**
LC adapter for single and/or dual 100x inspection.
No. 797PR150 ..... **$86.70**
Bare fiber pre-splice viewing adapter.
No. 797PR520 ..... **$22.10**

SMA adapter for 100x inspection scope. The threaded SMA adapter is readily available for those applications still requiring SMA connectors.
No. 797PR209 ..... **$34.00**
Biconic adapter for 100x inspection scope.
No. 797PR205 ..... **$42.50**
Replacement bulb for 100x inspection scope.
No. 797PR529 ..... **$1.30**
Krypton bulb replacement for PSF22.
No. 797PR220 ..... **$1.95**

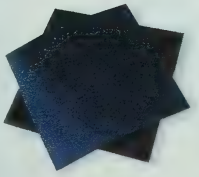


Beltloop holder
No. 797PR898 ..... **$12.25**

Pocket Microscope

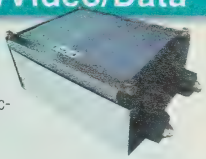
SCOPE MARK III,30x Magnification with illumination gives unparalleled sharp and brilliant vision with wide field of view. Bulb included.
No. 298IN086 ..... **$15.00**

Acrylic Polishing Plates



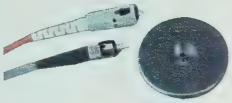
These colored acrylic polishing plates are shatter proof and make it easy to spot clear fiber. Our neoprene pads are available in industry standard Duro Hardnesses for all your termination needs. **(USA)**
No. 797PR798 ..... **$23.65**
6 x 6 sheets of 3 & .3 or 5 & 1 micron film, 25/pkg.
No. 797PR897 ..... **$14.95**
6 x 6 sheets of film w/<1 micron surface, 25/pkg.
No. 797PR987 ..... **$29.40**

Surgical Steel Polishing Fixture



This polishing fixture boasts an extremely long life and is capable of polishing St®, SC, and FC connectors on both single and multi-mode fibers. **(USA)**
No. 797PR109 ..... **$181.90**

Continuous Polishing System



Keeps 25 feet of two-in-one or one grit lapping film contamination free when working in dusty environments. Simply dial out new polishing surface, as you need it. **(USA)**
No. 797PR350 ..... **$168.30**
2 in 1 lapping film replacement roll (5 & 1 micron).
No. 797PR352 ..... **$56.10**
1 step lapping film replacement roll (3 micron).
No. 797PR351 ..... **$56.10**

Fiber Continuity Tester

The fiber optic continuity tester conveniently clips into a shirt pocket and is no larger than most pens. Krypton light is extremely bright, yet much safer than laser sources, and provides long range over multimode fiber. Tester acts as inspection back light. Soft ferrule gripping membrane is designed to protect finished ferrules while firmly securing the connector in the tester body. 2AA batteries included.
No. 462TE331 ..... **$37.10**

Precision Pocket Microscopes

25x or 50x magnification. Precision ground lens system. Rugged, brushed aluminum body. Clear acrylic, easy-focus base. Fits in your pocket like a pen.
No. 328IN853 25x ..... **$22.75** **No. 328IN609** 50x **$24.00**

30° Wedge-Carbide Tip

Fits comfortably in either hand, in your pocket or tool kit. Housed in a rugged, anodized aluminum casing 112mm long and 25mm diameter. 30° wedge-tip carbide scribe 3.8mm is designed for long life and simple fiber termination. 4.375"OAL. **(USA)**
No. 250PR030 ..... **$32.45**

Diamond Fiber Optic Scribe

Your scribe features a diamond tip mounted on a stainless steel shaft. Housed in a protective, retractable barrel, your tool is designed for scratch and pull scribing of fiber optic cable. **(USA)**
No. 250PR060 60° Conical Shape **$36.00**
No. 250PR090 90° Wedge Shape **$96.15**

Sapphire Scribe/Cleaver

This lightweight, inexpensive, pen-type cleaver has a wide, 1/4" wedge tip for fast fiber cleaving and easy-to-install Sapphire replacement blades. **(USA)**
No. 496TE003 ..... **$37.50**
No. 496TE161 Replacement Blade **$31.90**

Techni-Tool® Fiber Optic Vac™

New!

Specially designed by Techni-Tool, this high performance, handheld Vacuum is the only one designed solely for fiber optic installers. This easy to use, easy to carry vacuum weights less than 3 lbs. and never needs recharging. Pick-up fiber shards, jacket fibers, outer sheathing in closets, and more around the job sites or the production line. **Includes:** Pik-all nozzle; crevice tool. ***One-Year Warranty.*** **(USA)**
No. 555AC030 ..... **$49.95**

A

B

C

Paladin Tools®

A. LAN ProNavigator™ Network Data and Coaxial Cable Tester

This two piece tester detects opens, shorts, crossed wires and split pairs. Traces wires with tone & remote lights, and quickly faults analysis on coax & data cables. This easy to use one-button simple testing indicates pass/fail or fault find. Traces wires with tone and remote lights and quick fault analysis on coax & data cables. Generates oscillating audio tone for use with tone probes to locate cables. Tests data and telephone cables up to 320 feet for proper pairing for EIA/TIA-568B, token ring, 10 base T, and common category 5 configurations. Also tests common BNC connected 50 and 75Ω coaxial cables up to 320 feet for continuity. **Includes:** (1) main unit and remote; (2) RJ45 patch cords; (2) BNC coaxial cables; (2) CATV "F" -to-BNC adapters; (1) BNC/BNC adapter, (1) shield RJ45 coupler; (2) belt clips. **(USA)**

No. 618PR066..... **$184.95**

B. Universal Fiber Optic Kit

Economical fiber optic kit for universal field installation. **Includes**: crimp frame; three fiber optic dies, for SMA, SMB, SC, BC, ST, ST & FC type connectors; Siemon Lightspeed™ adhesive and primer with MSDS; 100X microscope for inspection; Kevlar cutters and hand scribe with reversible blade; No-Nik™ stripper for 203um fiber and OFCC jacket stripper; polishing pads, puck, paper, polishing and cleaning wipes; Spare syringe needles (10 each) for multiple adhesive applications. ***One-Year Warranty***.

No. 618AC044..... **$828.30**

D

C. BroadcastReady™ Kit

The BroadcastReady™ Kit contains professional tools for cutting, stripping, crimping and testing coaxial cable connections for HDTV, video and RF communications. **Includes:** 1600 series professional crimp tool with RG58/59/62AU die set; (4) interchangeable crimping die sets for crimping everything from RG174 to RG6, NT725 to Belden 8281; screwdriver for changing out dies; CST stripper frame with three interchangeable stripping cassettes for multiple connector types; Stripping for amphenol RFX series, AMP, Amphenol RF, RFX series, RG 58/59/62, BNC, and various small N-type connectors; KT 8 professional cable cutter with non-deforming cutting blades; Coax-Check® Remote cable tester with BNC adapters; Full coaxial connector-to-tool cross-reference table. ***One-Year Warranty.*** (Taiwan)

No. 618TE268 ..... **$299.95**

New!

D. CoaxReady™ Kit

Perfect for the LAN/Ethernet or video installation installer. CoaxReady combines some of the most popular tools in a handy zip case. **Includes**: crimp tool frame; three coaxial die sets; three-level coax stripper for RG58/59/62AU; cable cutter; and case. **Specs**: Die-Set: Hex Sizes: .256/.213/.068 for (Amphenol, AIM/Cambridge, ADC, AMP, and others); .128/.213/.197/.178/.068/.042 (Mini-coaxial connectors such as RG58 Plenum, Mini-59, RG174 and more); .325/.215/.065 (AIM/Cambridge and Kings connector requiring a .324 or .325 crimp). ***One-Year Warranty***. **(USA)**

No. 618AC054 ..... **$108.10**

E

E. CoaxReady™ Deluxe Kit

Tackle most coaxial cabling challenges with the CoaxReady Deluxe Kit. This kit can be used with a variety of coaxial connectors including mini-coax and HDTV applications. **Includes:** Coax-Check® Remote cable tester with BNC adapters; 1300 crimp tool frame and EZI-Change die screws; (3) 1300 series coaxial die sets; One set for standard RG58/59/62 connectors, crimp cavities, .256, .213, .068; One set for mini-coaxial connectors such as RG58 plenum, Mini RG59, RG174 and more. Crimp Cavities, .128, .213, .197, .178, .068, .042; One set for HDTV, BNC/TNC, CATVP for RG59/6 Belden 8281 and 1694A, Crimp Cavities, .324, .255, .608, .052, .042; LC CST three-level coax stripper for RRG58/59/62AU; KT 8 professional-quality cable cutter for coaxial and other non-armored cable types. ***One-Year Warranty.*** (Taiwan)

No. 618TE271 ..... **$169.95**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Thermal Transfer Label Printer

Make crisp accurate bar codes and labels that won't smear. This handheld thermal transfer printer accepts labels and wire markers up to 2" wide. Has more than 200 different label options that recognizes the label you're using, determines the text size and automatically adjusts itself without wasting material. Replace your ribbon in seconds just pull out the used cartridge and insert a new one. Adjustable for six different widths of labels. UL and CUL listed battery charger. Prints 500 labels between battery charges. Includes: hard case, ribbon, battery pack, dust cover, battery charger, manual, test labels and one cleaning card. **(USA)**

Label Printer System
No. 207PR220 (TLS2200) **$795.00**

Accessories for Label Printer

Extra Battery Pack
No. 207PR221 (TLS2200-BP) **$71.50**

Battery Charger
No. 207PR222 (TLS2200-BC) **$35.00**

AC Adapter
No. 207PR223 (TLS2200-AC) **$90.00**

Cleaning Kit
No. 207PR224 (PCK-5) **$12.50**

R4310 Black Ribbon. 75 ft.
No. 207PR225 (R4310) **$19.20**

R6010 Black Ribbon. 75 ft.
No. 207PR226 (R6010) **$19.20**

PermaSleeve® Wire Marking Sleeves

White polyolefin heat shrink sleeves are perfect for a permanent method of labeling wire. Maximum service temp. is 221°F (105°C). **(USA)**

JUST THE FACTS			
TT No.	Labels/Rolls	W x H	Price
207PR241	100	1.76 x 0.235	$45.90
207PR242	100	1.76 x 0.335	$51.10
207PR243	100	1.76 x 0.439	$61.90

Component & General Identification Labels

Polyester pressure-sensitive adhesive labels are designed to withstand numerous solvents while maintaining outstanding image quality. **(USA)**

JUST THE FACTS				
TT No.	Description	Pcs Per Pk	Dimensions	PRICE
207PR227	(White) Outlets	750	0.5 x 0.275	$29.00
207PR228	(Clear) Outlets	500	0.5 x 0.5	$28.10
207PR229	(White) Outlets	500	0.5 x 0.5	$25.50
207PR230	Rating Plate	250	1 x 1	$21.40
207PR231	Assets General ID	100	2 x 1	$24.10
207PR232	Assets General ID	100	2 x 1	$17.10
207PR233	Assets General ID	250	1.5 x 1	$24.20
207PR234	Assets General ID	250	1.5 x 1	$34.50

JUST THE FACTS				
TT No.	Description	Labels/Roll	W x H	PRICE
207PR235	Cable Marking Labels	100	1 x 2.5	$19.70
207PR236	Cable Marking Labels	100	1 x 4	$23.50
207PR237	Cable Marking Labels	50	1.5 x 6	$26.30
207PR238	Wire Marking Labels	250	1 x 1.5	$33.00
207PR239	Wire Marking Labels	250	1 x 1	$25.70
207PR240	Wire Marking Labels	250	0.75 x 1	$23.40

Shop Kit - Two Kits For The Price Of One!

Cable-Wiring Harness Kit - 602 pc

Keeps 600 parts neatly organized at the job site. Selection includes extra long 11" ties for larger bundles and tie mounts to secure harness. Contains Cable Tie Gun, Long Nose Wire Stripper, Cable Ties in four sizes, four size cable clamps, self-adhesive tie mounts, spiral wrap, and insulating tape – three different colors.
No. 220PR064 ..... **$39.95**

Multi-Tester Wiring Kit - 154 pc
For most electrical projects from #22 to #10 AWG can be properly re-wired fast.
No. 220PR057 ..... **$36.95**

Wire-Marker Dispenser

Only 6"L x 3"W x 1/2"D, carry comfortably in shirt or pants pocket. Rugged, sturdy case. Flip-top cover reveals ten tape rolls at once. Dispenser tab holds tapes firmly in place.
No. 462PR301 ..... **$26.35**
No. 462PR399 Refill pack with one each of 0-9 legend rolls **$19.55**

Prices in this catalog are effective January 1, 2001. While we attempt to hold prices, we cannot control when our vendors increase prices.
All prices are subject to change without notice.
We reserve the right to correct misprints.

Heavy Duty Lashing Cable Ties

TT No.	Min. Tensile Unlocking Strength	Max. Bundle Dia. In. (mm)	Length In. (mm)	Width In. (mm)	PRICE 100/Pk. (1-9)	PRICE 100/Pk. (10+)
804PR122	120 lbs.	2 (50.8)	8-7/8 (225.4)	0.30"(7.6)	$8.00	$7.60
804PR123	120 lbs.	3 (76.2)	11-7/8"(301.6)	0.30"(7.6)	$10.90	$10.36
804PR030	120 lbs.	4 (101.6)	15-1/4 (387.4)	0.30"(7.6)	$18.15	$17.24

Standard Cable Ties

TT No.	Min. Tensile Unlocking Strength	Max. Bundle Dia. In. (mm)	Length In. (mm)	Width In. (mm)	PRICE 100/Pk. (1-9)	PRICE 100/Pk. (10+)
804PR040	18 lbs.	5/8" (15.9)	3-3/8" (85.7)	0.08" (2.0)	$1.15	$1.09
804PR038	18 lbs.	3/4" (19.0)	4" (101.6)	0.10" (2.5)	$1.25	$1.19
804PR034	18 lbs.	1-1/4" (31.8)	5-3/4" (146.1)	0.10" (2.5)	$1.75	$1.66
804PR036	18 lbs.	2 (50.8)	8" (203.2)	0.10" (2.5)	$2.00	$1.90
804PR044	30 lbs.	1-1/4" (31.8)	6" (152.4)	0.14" (3.6)	$2.00	$1.90
804PR046	40 lbs.	2" (50.8)	8-1/2" (215.9)	0.15" (3.8)	$2.80	$2.66
804PR054	50 lbs.	1-3/4" (44.5)	8" (203.2)	0.18" (4.6)	$2.00	$1.90
804PR048	50 lbs.	3" (76.2)	11-3/4" (298.5)	0.18" (4.6)	$6.55	$6.27
804PR050	50 lbs.	4" (101.6)	5-1/2" (393.7)	0.18" (4.6)	$7.00	$6.65
804PR122	120 lbs.	2" (50.8)	8-7/8" (225.4)	.30" (7.6)	$8.00	$7.60
804PR123	120 lbs.	3" (76.2)	11-7/8" (301.6)	.30 (7.6)	$10.90	$10.36

Releasable Cable Ties

TT No.	Min. Tensile Unlocking Strength	Max. Bundle Dia. In. (mm)	Length In. (mm)	Width In. (mm)	PRICE 100/Pk. (1-9)	PRICE 100/Pk. (10+)
804PR026	50 lbs.	1-3/8"(34.9)	5-1/2"(139.7)	0.34"(8.6)	$8.10	$7.70
804PR024	50 lbs.	2-3/4 (69.8)	10"(254.0)	0.34" (8.6)	$13.25	$12.59

Mounting Cable Ties

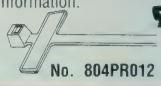
TT No.	Mounting	Min. Tensile Unlocking Strength	Max. Bundle Dia. In. (mm)	Length In. (mm)	Width In. (mm)	PRICE 100/Pk.
804PR028	#4 Screw	18 lbs.	3/4"(19.0)	4-1/4"(107.9)	0.10"(2.5)	$61.85

Identification Cable Ties

Tie and identify bundles of cable in one operation. Large flat area for imprinting or writing the required information.

No. 804PR010

No. 804PR014

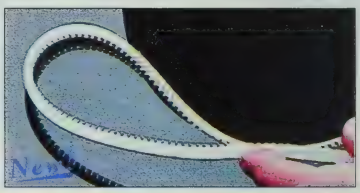


No. 804PR012

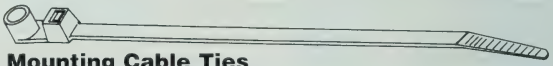
TT No.	Min. Tensile Unlocking Strength	Max.Dia. In. (mm)	Length In. (mm)	Width In. (mm)	PRICE 100/Pkg. (1-9)	PRICE 100/Pkg. (10+)
804PR012	18 lbs.	3/4" (19.0)	4" (101.6)	0.10" (2.5)	$7.80	$7.41
804PR010	18 lbs.	3/4" (19.0)	4-1/4" (107.9)	0.10" (2.5)	$21.60	$20.52
804PR014	50 lbs.	1-3/4" (44.4)	8" (203.2)	0.18 (4.6)	$8.55	$8.12

Flexiform Grommet

Flexiform grommet is a unique, continuous wire protection product which fits easily in all shapes and sizes of panel holes without the aid of tools or adhesives.



TT No.	Inside Dim. Width	Outside Dim. Width	Outside Height	Gauge	PRICE 82 FT REEL (1-9)	PRICE 82 FT REEL (10+)
804MI002	.055	.150	.157	20 to 18	$78.45	$70.61
804MI004	.091	.177	.157	21 to 18	$81.40	$73.26
804MI006	.130	.220	.157	17 to 14	$89.00	$80.10



Mounting Cable Ties

Quickly and simply bundle and mount cables with a one-piece, all-plastic Mounting Cable Tie which accommodates several screw sizes.

TT No.	Color	Min. Tensile Dia. In.	Max. Bundle in.	Length x Width Tool	Tyton Installation	Per Pk.	PRICE
804PR009	Natural	18 lbs.	3/4"	4-1/4 x 10"	TWT1, MK7, MK9, MK3PN, MK7PN, MK7EL	100	$5.00
804PR016	Natural	30 lbs.	1-1/4"	6-1/4" x .14"	TWT1, MK7, MK9, MK3PN, MK7PN, MK7EL	100	$5.80
804PR017	Natural	50 lbs.	1-3/4"	8-1/2" x .18"	TWT1, MK7, MK9, MK3PN, MK6PN, MK7PN, MK7EL	100	$5.15
804PR018	Natural	50 lbs.	4"	16" x .18"	TWT1, MK7, MK9, MK3PN MK6PN, MK7PN, MK7EL	100	$13.10
804PR019	Natural	120 lbs.	4"	16-1/4" x .30"	TWT2, MK9, MK6PN	50	$16.15

HellermannTyton.

A. Mark 7 Tensioning Tool

Ergonomic design and unique 1" stroke reduce operator fatigue and speed of installation. Mark 7 has three variable tension levels and quick, infinite adjustability for flush cutoff. Tough glass reinforced nylon case, chromium steel components, and roller bearing mechanism. Wt.: 9-1/2 oz.

No. 804PR007 ..... $192.15

Blade Replacement Kit No. 804PR070 ..... $10.85

Mark 7 HT (Heavy Tension)

Same design as the mark 7 with increased tension range.

No. 804PR702 ..... $214.30

B. Heavy-Duty Cable Tie Installation Tool

Gives proper tension to small, intermediate and standard ties.
Quick cutoffs every time it ties.

No. 462ST014 ..... $137.20

Mark 9 HT (Heavy Tension)

The Mark 9 HT accommodates the highest range of styles and sizes and includes non-slip grip, a 5/8" stroke, adjustable standard or heavy tension.

No. 804PR090 ..... $223.20

C. Economy Hand Cable Tie Tool

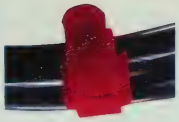
Makes the tightening and cutoff of cable ties a quick, one-handed affair. Accepts most standard cable ties. A simple squeeze on the trigger of the comfortable, pistol grip tool tightens the ties. You select the tension. A twist to the left or right cuts off tie flush. Made of high impact F.R.P. and tool steel. Accepts 18-50 lb. ties.

No. 804PR064 ..... $21.75

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

RIP-TIE

New!



Lite™ Cable Wrap

These light duty cable wraps are perfect for bundling cables; and are designed to wrap computer, sound, or telephone equipment. These wraps will not crimp, so they won't damage delicate computer network or fiber optic cables. **10/Pk (USA)**

No. 679ST8010 Black **$9.00**
No. 679ST8100 Assortment **$9.00**

CinchStrap-EG

The CinchStrap-EG is the fastest way to organize any heavy, hard to manage cable system, and takes the stress off large cable bundles. Designed with an End Grommet that lets you safely suspend cables with the strength of a metal fastener from wiring racks, mobile carts, along walls, over doorways and in wiring closets. It won't crimp or damage Category 5 or fiber optic cables. **10/Pk (USA)**

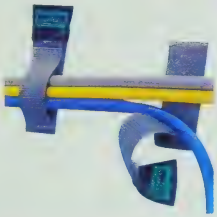
No. 679ST7010 1" x 7" Black Assortment **$34.95**
No. 679ST1010 1" x 10" Black Assortment **$36.95**

CableWrap

Designed to eliminate the frustration, inconvenience, and mess associated with cables. Constructed with a nylon tie for permanent attachment to your cable. **10/Pk (USA)**

No. 679ST0610 1" x 6" Black **$23.95**
No. 679ST6100 Rainbow Assortment **$23.95**
No. 679ST9010 1" x 9" Black Assortment **$26.95**

CableCatch™



The CableCatch™ is designed to organize cables against a surface. It permanently adheres to any smooth surface like desks and equipment racks. Easy to use, just peel off the backing paper, press to surface, then pull the tab down, and secure cables. The industrial quality hook and loop ensures durability. **5/Pk (USA)**

No. 679ST2005 Grey **$13.95**
No. 679ST4005 Black **$15.95**

New!

Tec-Duster CO_2 Power Cleaner

Tec-Duster CO_2 Power Cleaner is an ozone-safe dust and particle remover. Replaces large aerosol dusters with simple, safe and 100% pure high-velocity Tec-Duster CO_2 gas. Safely cleans off dust and particles from equipment, computer, audio equipment, medical and laboratory equipment, circuit boards, and more. This cleaner is safe on plastics and does not remove lubricants. Leaves no residue, staining, or spotting, and is non-flammable, non-toxic, and non-corrosive. Cylinders are disposable and recyclable. **Specs:** Contents: 74g, CO_2 Carbon Dioxide (99.9% pure); Type of Gas: Non-Flammable, UN 1013 CAS# 124-38-9. **(USA)**

A. No. 758CH521 ..... **$32.20**
No. 758CH522 Replacement Cylinder **$10.10**

Tech-Duster Valve

Tech-duster valve for CO_2 with two nozzles and base. ***Lifetime Warranty.*** **(USA)**

B. No. 758PR523 ..... **$85.50**

Standard duty tech duster valve with tapered nozzle and base. **(USA)**

C. No. 758PR524 ..... **$13.00**

Motorola Professional Series Job Site Radios

Motorola Spirit Professional Two-Way Radios have been designed to meet the specific needs of business's requiring job site communications. ***One-Year Warranty.***

TT No. Model	282PR011 MV11C	A. 282PR210 MV21CV	B. 282PR021 MU21CV	282PR022 MV22CV	282PR220 MU22CV	282PR042 SU42CSTBY	C. 282PR052 SV52CSTRP
Watts	1	2	2	2	2	4	5
UHF/VHF	VHF	VHF	VHF	VHF	UHF	UHF	UHF
Interference Eliminator	✓	✓	✓	✓	✓	✓	✓
Battery Life/Hours	10	8	8	8	8	13	13
Antenna Height	3.5"	5"	3.5"	5"	3.5"	5"	5"
Charger	Wall	Wall	Wall	Wall	Wall	Tray	Tray
Channels	1	1	1	2	2	2	2
VOX Hands-Free Capability	–	✓	✓	✓	✓	✓	✓
Outdoor Range							
No obstructions	Up to 4 miles	Up to 5 miles	Up to 5 miles	Up to 5 miles	Up to 5 miles	5+ miles	5+ miles
Near buildings	Up to 2 miles	Up to 2.5 miles	Up to 2 miles	Up to 2.5 miles	Up to 2 miles	Up to 2 miles	Up to 2 miles
Indoor Range							
Steel and concrete reinforced buildings	Up to 150,000 sq. ft.	Up to 180,000 sq. ft.	Up to 250,000 sq. ft.	Up to 180,000 sq. ft.	Up to 250,000 sq. ft.	25,000+ sq. ft.	180,000+ sq. ft.
Multi-level buildings	Up to 8 floors	Up to 10 floors	Up to 20 floors	Up to 10 floors	Up to 20 floors	20+ floors	10+ floors
PRICE	$225.00	$275.00	$275.00	$279.00	$305.00	$499.00	$459.00

High-Power Job Site Radios

Accessories

ALL WEATHER RESISTANT!

Leatherette Case

Perfect for carrying your 2-way radio.

No. 282AC003 ..... **$22.10**

Leatherette case with belt clip protects your high power radio.

No. 282AC002 ..... **$22.10**

In-Ear Earbud

For private listening of 2-way conversations.

No. 282PR024 ..... **$22.95**

Headset with Microphone

Hands free headset when private listening is required.

No. 282MI214 ..... **$63.75**

Remote Speaker Microphone

Ideal for noisy areas to keep the sound near the ear

No. 282AC026 ..... **$69.70**

Multi-Charger Bracket

This multi-charger rugged steel bracket holds up to 6 desktop chargers

No. 282AC388 ..... **$153.00**

Battery Pack/NiCad Rechargeable

Fits all S, M series models. Non-memory NiCad battery

No. 282AC9044 ..... **$35.70**

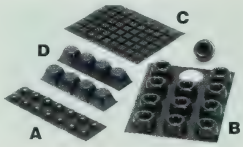
ASG Automated Tape Dispenser

Reduce operator fatigue and waste. This dispenser provides consistent tape lengths with clean and straight cuts and accepts virtually any tape. The *Model 5000* accepts width from .32" to 1.19" (8 to 30mm). It cuts lengths from .79" to 4.75" (20 to 120mm) or longer. It allows up to 20 pieces of tape to be cut at the touch of a button. Unique feed system places tape on carousel for easy removal. The *Model 2000* accepts tape widths from .12" to .99" wide (3 to 25mm). It cuts lengths from .51" to 2.37" (13 to 60mm). Allows up to 10 pieces of tape to be cut at the touch of a button. Unique feed system places tape on carousel for easy removal.

No. 106PR110 Model 5000 ..... **$1545.00**
No. 106PR100 Model 2000 ..... **$782.00**

Protective Bumpers!

3M Bumpons



3M self-sticking, polyurethane bumpers serve as high-performance cushions, feet, spacers and protectors. 100/Pkg. Black. Other colors available. **(USA)**

A. Hemispherical
0.20" dia. x 0.44"H
No. 105PR5003 ..... **$5.75**
0.75" dia. x 0.38"H
No. 105PR5017 ..... **$14.15**
0.63" dia. x 0.31"H
No. 105PR5027 ..... **$14.90**

B. Cylindrical
0.88" dia. x 0.40"H
No. 105PR5009 ..... **$17.70**
0.50" dia. x 0.14"H
No. 105PR5012 ..... **$5.90**

C. Tapered Square
0.40" sq. x 0.12"H
No. 105PR5007 ..... **$5.65**
0.50" sq. x 0.23"H
No. 105PR5018 ..... **$9.40**
0.81" sq. x 0.30"H
No. 105PR5023 ..... **$14.15**
1.25" sq. x 0.24"H
No. 105PR5705 ..... **$59.25**

D. Miscellaneous
0.81" sq. x 0.52"H
No. 105PR5514 ..... **$31.60**

Plastic Insulated Service Entrance Straps

These plastic insulated service entrance straps are perfect with your service entrance cable and conduit. The smooth plastic saddle prevents damage to the cable, while the zinc-plated nails resist rust and corrosion. **(USA)**

#6 SER & 1/2" EMT
No. 462PR560 50/bag **$9.30**

#6 & #8 SEU
No. 462PR056 50/bag **$9.30**

Coaxial Cable Straps

Use these Coaxial Cable Straps with your round cable such as CATV/VCR and phone cables or with plastic and metal tubing. The smooth plastic saddle prevents damage to cable, while the zinc-plated nails resist rust and corrosion. **(USA)**

1/4" White, 100/pk
No. 462PR728 ..... **$3.50**

1/4" Black, 100/pk
No. 462PR772 ..... **$3.50**

Fiber Insulated Cable Staples

Use these Fiber Insulated Cable Staples with your smaller wire and cord applications such as low voltage bells, thermostats, telephones and sound systems. The insulated fiber provides enhanced strength and dielectric resistance, while resisting rust and corrosion. The sharp-pointed legs drive straight without splitting wood. **(USA)**

White Fiber 40/pk
No. 462PR841 ..... **$1.15**

Brown Fiber 40/pk
No. 462PR840 ..... **$1.15**

Plastic Insulated Cable Straps

Use these plastic insulated cable straps with wider cable such as Romex, NM and UF. The smooth plastic saddle prevents damage to cable, while zinc-plated nails resist rust and corrosion. **(USA)**

1/2" Insulated
No. 462PR252 500/Bag **$10.50**

3/4" Insulated
No. 462PR323 250/Bag **$6.10**

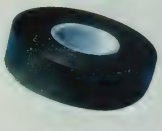
Protect Against Accidents!

Tunnel Safety Tape™

Use anywhere electrical or electronic cables and cords are used. Keeps cables, wires and cords in place in a non-sticky tunnel. 4" x 40 Yds. 1/each.

No. 729AD056 ..... **$19.95**

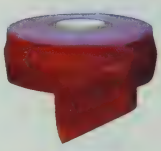
AMP Cold Shrink Tape



This tape bonds to itself permanently. Ideal for "buried" applications. Better insulating qualities than electrical tape. Black.

No. 104MI683 3/4"W x 30 Ft. **$6.70**
No. 104AD685 1"W x 10 Ft. **$9.40**

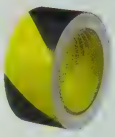
MOCAP Silicone Tape



300% stretch wrap silicone tape masks irregular shapes. No adhesives means no secondary clean up. Fuses to itself within 24 hours. Dielectric strength: 400V/mil. Op. Temp: - 45°C to 200°C. Size: 1" x 12 yd.

No. 576MI001 ..... **$14.95**

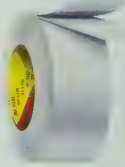
3M 5702 Safety Stripe Tape



Safety Stripe vinyl plastic tape with 2" (50.8mm) wide alternating colored stripes. Designed to mark floors and objects to identify safety areas and physical hazards. (2"W x 36 Yds.)

No. 105AD702 Black/Yellow **$43.25**

Scotch™ 898 Filament Tape



This high-strength, transparent polyester film is back tape reinforced with glass yarn filaments. Use in high performance holding, reinforcing, combining bundle, and unitizing applications. 6 mil thick; tensile strength is 380lbs./in. 2" x 60 yds.

No. 105PR898 ..... **$15.36**

3M Insulating And Splicing Tapes

Glass Cloth Electrical Tape - 7mil.
Thermosetting, pressure-sensitive tape for use as a coil cover. UL.27- Glass cloth electrical tape 7-mil. 3/4"W x 66 Ft. roll.

No. 105AD027 ..... **$12.00**

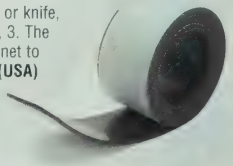
Scotch® 69 Glass Cloth Electrical Tape
Pressure sensitive, 7.5-mil printable tape. *UL Recognized* for flame retardancy. For 180°C applications. 3/4"W x 66 Ft. roll.

No. 105AD069 ..... **$17.20**

3M PTFE Fluorocarbon Tape
Electrical insulation for coils, transformers, capacitors, wire and cable. High temperature film. *Meets MIL-1-23594C TYPE1 and UL 510-Silicone Adhesive.* PTFE Fluorocarbon Tape-silicone ADH, 3/4"W x 36 Yds. roll.

No. 105AD060 ..... **$43.50**

Magnetic Strip



Simply unroll, cut desired length with scissors or knife, and stick to a smooth surface. As easy as 1, 2, 3. The adhesive backing allows you to stick your magnet to nonmetal objects to hold small metal objects. **(USA)**

1/2"W x 30"L x 1/16"T
No. 400PR366 ..... **$2.20**
1"W x 30"L x 1/16"T
No. 400PR368 ..... **$2.90**

3M Scotchmate™ Hook & Loop Fasteners

The hook strip is covered with tiny, stiff hooks, about 300 hooks per square inch (46/sq.cm.). The loop strip is covered with thousands of soft, pliable loops. When pressed together, the hooks and loops mate to form Scotchmate fastener, a secure fastening attachment. Made of 100% nylon.

No. 105PR271 (70-0704-1596-6) Black **$31.60**
No. 105PR272 (70-0704-2774-8) White **$31.60**

3M Vinyl Insulation Tapes

Description

Scotch™ Super 33+ Premium Vinyl Electrical Tape
7 mil conformable, all weather tape: resists UV rays, abrasion, corrosion, alkalies & acids. Flame retardant for splices up to 600V. Temp Range: 220°F
No. 105ST033 3/4" x 66' **$4.45**

Scotch™ Super 88 Premium Vinyl Electrical Tape
8.5 mil all weather, heavy-duty, abrasion resistant, fast build up: for splices up to 600V.
No. 105PR088 3/4" x 66' **$4.50**

Scotch™ 22 Vinyl Electrical Tape
Heavy-duty, 10-mil tape offers abrasion resistance and mechanical protection. *ASTMD-2301*, Type II for bus bar insulation & cable jacket repair.
No. 105AD022 3/4" x 36 yds. **$8.95**

3M Packaging Tapes

Description

Scotch™ 232 High Performance Masking Tape
Premium 5.7 mil grade paper masking tape.
No. 105PR2322 2" x 60 yds. .. **$8.65**

3M General Use Tapes

Description

Highland™ 6969 Cloth Duct Tape
A silver, polyethylene-coated 10.8 mil tape to be used for moisture proofing, duct sealing, protecting and general purpose applications.
No. 105AD969 2" x 60 yds. **$9.20**

Temflex™ 1755 Cotton Friction tape
High grade 15 mil friction tape. Good abrasion resistance for splices and connections.
No. 105PR755 3/4" x 60' **$2.15**

3M Splicing & Terminating Tapes

Description

Scotch™ 13 Semi Conducting Tape
A 30 mil silver, polyethylene-coated rubber tape to be used for electrically round high voltage connections.
No. 105AD013 3/4" x 15' **$8.85**

Scotch™ 24 Shielding Tape
An all-metal, open-weave knit construction from tinned copper wires. Use 24 Tape to continue electrostatic shielding.
No. 105ST024 1" x 15' **$15.50**

Scotch™ 25 Grounding Braid
Tinned copper woven braid used for grounding. High current-carrying capacity of 6 AWG wire. Used to ground shielded splices and terminations
No. 105AD025 1/2" x 15' **$55.30**

Scotch™ 69 Glass Cloth Electrical Tape
Pressure sensitive, 7.5 mil printable tape. *UL Recognized* for flame retardancy. For 180°C applications
No. 105AD069 3/4" x 66' **$17.20**

Scotch™ 70 Self-Fusing Silicone Rubber Tape
12 mil high-temperature arc & track-resistant; self-fusing tape. Can be used as primary cable insulation or as protective overwrap for terminating high-voltage cables.
No. 105AD070 1" x 30' **$29.95**

Scotch™ 130C Linerless Rubber Splicing Tape
30 mil self-bonding, EPR based, corona resistant self-bonding tape. Can be used as primary insulation for splicing solid dielectric cables at up to 69kV. *Meets HHI-553C, Grade A and ASTM D-4388, TYPE II*
No. 105AD130 3/4" x 30' **$9.10**

Temflex™ 2150 Rubber Splicing Tape
30 mil Low voltage (600 V or less), economy-grade splicing tape. *Conforms to ASTM-D4388*
No. 105PR150 3/4" x 22' **$4.35**

3M EMI Shielding Tapes

3M 1170 Aluminum Backing Foil EMI Tape
2 mil foil; conductive-adhesive system; for EMI shielding, static charge draining, grounding; easily die cut. UL 510 Flame Retardant. Aluminum Backing. Electrical Resist: 0.010.
No. 105ST1170 1" x 18 yds. **$42.50**

3M 1181 Copper Backing Foil EMI Tape
1.4 mil foil; conductive-adhesive system, for EMI shielding, charge draining grounding; easily die cut. UL 510 Flame Retardant. Copper Backing Electrical Resist: 0.005
No. 105ST1181 1" x 18 yds. **$39.55**

3M 1182 Copper Backing Double Coated Foil EMI Tape
1.4 mil foil; coated on both sides with conductive adhesive; for EMI shielding static charge draining, grounding; solderable; easily die cut. UL 510 Flame Retardant. Copper Backing (Double-Coated). Electrical Resist: 0.010
No. 105ST1182 1" x 18 yds. **$48.90**

3M 1183 Tin-Plated Copper Backing Foil EMI Tape
1.4 mil foil; conductive-adhesive system; oxidation resistant for excellent long-term EMI shielding, static charge draining grounding; solderable; easily die cut. UL 510 Flame Retardant. Tin-Plated Copper Backing. Electrical Resist: 0.005.
No. 105ST1183 1" x 18 yds. **$42.30**

3M 1190 Copper Plated Polyester Ripstop Fabric Backing EMI Tap
4.5 mil metallized fabric; conductive-adhesive, lightweight; conformable; high strength; for EMI shielding, grounding. Not UL 510 Flame Retardant. Copper Plated Polyester Ripstop Fabric Backing. Electrical Resist: 0.005
No. 105ST1190 1" x 18 yds. **$39.60**

3M 1194 Copper Backing Foil EMI Tape
1.4 mil foil; nonconductive-adhesive, for EMI shielding; static charge draining when grounded; easily die cut. UL 510 Flame Retardant. Copper Backing Electrical Resist: N/A.
No. 105ST1194 1" x 18 yds. **$31.25**

3M 1245 Embossed Copper Backing Foil EMI Tape
1.4 mil foil; conductive through adhesive, for EMI shielding, static charge draining, grounding; solderable; easily die cut. UL 510 Flame Retardant Embossed Copper Backing. Electrical Resist: 0.001.
No. 105ST1245 1" x 18 yds. **$34.30**

3M 1267 Aluminum Backing Foil EMI Tape
2 mil foil; conductive through adhesive, for EMI Embossed shielding, static charge draining, grounding; easily die cut. UL 510 Flame Retardant Aluminum Backing. Electrical Resist: 0.005.
No. 105ST1267 1" x 18 yds. **$38.75**

3M 1345 Tin-Plated Copper Backing Foil EMI Tape
1.4 mil foil; conductive through adhesive, oxidation resistant for excellent long-term EMI shielding, static charge draining, grounding; solderable; easily die cut. UL 510 Flame Retardant. Embossed Tin-Plated Copper Backing. Electrical Resist: 0.001.
No. 105PR345 1" x 18 yds. **$38.65**

3M Foil Tape Kit

A unique way to have a variety of foil shielding tapes at hand for design or prototype needs. Contains eight rolls: aluminum smooth; copper smooth; copper (adhesive both sides), tinned smooth copper; copper (non-conductive adhesive); embossed copper; embossed aluminum; and embossed tinned copper. Each is 3/4" by four yds. Compact dispenser box serves as a desktop reference with basic technical information on each tape including product number, backing and adhesive type, thickness, adhesion resistance and shielding effectiveness.
No. 780ST010 ..... **$53.50**

Artus Plastic Shim Stock

The color tells the thickness. Size 5"L x 1"W. Book of 14 assorted thicknesses. Sizes: .0005 to .030
No. 168PR001 **$10.95** /pkg

THE SIEMON COMPANY

Siemon Rack System

Organize your cables with the cable management rack system. Combines a 7' x 19" aluminum relay rack with cable management accessories to provide a complete cable management solution. The front of the rack has multiple mounting holes for mounting high-capacity twist-lock cable manager. Includes: 10 high-capacity cable managers, 10 hook and loop cable mangers, frommets, and ground lug.

No. 708TL046 ..... **$499.50**

WM Series 19" Cable Manager

Horizontal cable managers can be used with all patch panels and rack mount products. Mount on standard 19" racks or cabinets and provide a clean and simple means of organizing small-to-large bundles of cables and patch cords.

No. 708TL047 5 S143 hangers, 1RMS **$33.90**

No. 708TL048 5 S144 hangers, 2RMS **$36.55**

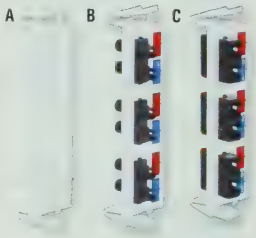
S110 Test Adapters

4-pair S110 test adapters provide a convenient way to test 110-type connecting blocks. Plugs directly on any 110-type connecting block and provides a modular jack for connection to test equipment or patch cords. Can be attached to both terminated and unterminated 110-type connecting blocks. Adapters are end-stackable, and are polarized to prevent incorrect insertion.

No. 708TL101 T568A **$34.95**

No. 708TL102 T568B **$34.95**

Adapter Plates



Blank adapter plate

A. No. 708TL090 ..... **$2.70**

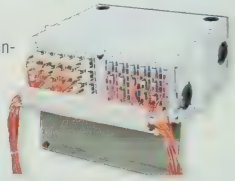
Adapter plate with 6 ST adapters (6 ports) and icon pockets.

B. No. 708TL091 ..... **$46.60**

Adapter plate with 3 duplex SC adapters (6 ports) and icon pockets.

C. No. 708TL092 ..... **$52.85**

Fiber Interconnect Center



72/144-port rack mount fiber interconnect center.4 RMS. laser-printable labels, cable ties, rack-mounting hardware, and pre-installed fiber management clips.

No. 708TL093 ..... **$358.70**

CT Patch Panels

Custom configure your panels to suit your particular application. This easy snap-in capability offers a feature-rich and flexible solution to patching. Changes and modifications can be accomplished in the field by simply removing existing couplers from the front with a flathead screwdriver and inserting new or alternate ones.

No. 708TL040 24-port panel, 1RMS, T568B wiring **$145.30**

No. 708TL041 24-port panel, 1RMS, T568A wiring **$145.30**

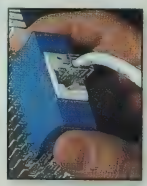
No. 708TL042 48-port panel, 2RMS, T568B wiring **$290.60**

No. 708TL043 48-port panel, 2RMS, T568A wiring **$290.60**

No. 708TL044 96-port panel, 4RMS, T568B wiring **$556.70**

No. 708TL045 96-port panel, 4RMS, T568A wiring **$556.70**

Category 5 TESTAT

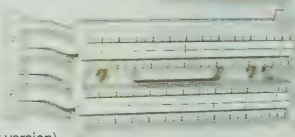


Category 5 TESTAR creates easy test access to 66 quick clips. It plugs directly onto the 66 block, establishing a positive connection and providing a 4-pair modular jack for plugging in test equipment.

No. 708TE005 T568A **$24.85**

No. 708TL103 T568B **$24.85**

S110 Field-Termination Kits



Complete S110 installation kits are available which include S110 wiring blocks, S100 connecting blocks, and label holders with white designation labels (legs detachable on the 100-pair version).

100-pair S110 field termination kit.

No. 708TL084 5-pair connecting blocks..... **$28.10**

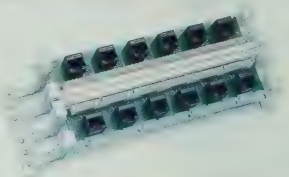
No. 708TL085 4-pair connecting blocks..... **$24.10**

300-pair S110 field termination kit.

No. 708TL086 5-pair connecting blocks..... **$79.60**

No. 708TL087 4-pair connecting blocks..... **$72.55**

Wall Mount Category 5 Panels



12-port, wired T568B, without legs.

No. 708TL088 ..... **$97.10**

12-port, wired T568A, with detachable legs.

No. 708TL089 ..... **$106.85**

Field Terminated M Series

Blocks can be end stacked without losing space. Center-to-center vertical space between rows of clips is 2". Pair capacity is 50, and quick clip is 500. 10"L x 3.4"W x 1.2"D.

No. 708TL083 ..... **$7.35**

High-Performance Modular Cords

Ideal for patching, connecting telephones and computer equipment to work area outlets. These cords are constructed using ANSI/TIA/EIA-568-A and ISO/IEC 11801 category 5 or category 4 high performance cable. Modular plug have 50 microinches minimum of gold plating over nickel. 3feet with boot.

No. 708TL532 White **$4.95**

No. 708TL533 Light Ivory **$4.95**

350MHz UTP Patch Cables

Provide the perfect solution for your system additions, moves or changes with these patch cables. This unique boot provides strain-relief at the snagless modular plug and helps maintain the proper bend radius at the ends of the cords. Patch Cables are wired according to T568B wiring configurations with 24AWG stranded copper requirements and has passed strenuous resistance and continuity tests.

JUST THE FACTS

	TT No.	PRICE	TT No.	PRICE	TT No.	PRICE	TT No.	PRICE
Length	3 Feet		5 Feet		10 Feet		25 Feet	
Gray	462CN731	$6.00	462CN732	$7.00	462CN734	$9.00	462CN736	$16.00
Blue	462CN737	$6.00	462CN738	$7.00	462CN740	$9.00	462CN742	$16.00
Black	462CN743	$6.00	462CN744	$7.00	462CN746	$9.00	462CN748	$16.00
Yellow	462CN749	$6.00	462CN750	$7.00	462CN752	$9.00	462CN754	$16.00
Red	462CN755	$6.00	462CN756	$7.00	462CN758	$9.00	462CN760	$16.00

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

New!

SmartRack™

SmartRacks are premium cabinets designed to organize and secure 19" rackmount servers, data storage and network/telecom equipment. SmartRacks have a more efficient design that provides up to 3U-rack space, and a unique set of mounting rails for rear mounting of additional equipment. They ship fully assembled and are 100% compatible with all of your servers. The retractable stabilizer feet prevent cabinet from tipping when rack equipment is removed. SmartRack feet slide under cabinet when not in use to prevent tripping. The locking system safeguards your equipment from tampering. Clear-view locking front doors allow you to easily monitor LEDs. Fully ventilated rear locking doors provide cooling. **(USA)**

(Ships direct from manufacturer within two days of your confirming order.)

LEASING AVAILABLE!

Deluxe Enclosure (with cable management) Total Rack Space: 44U: Dimensions: 83.4" x 27.1" x 32.6
No. 794PR657 ..... **$2149.00**

Deluxe Expansion Enclosure (with cable management)Total Rack Space: 44U: Dimensions: 83.4" x 27.1" x 32.6"
No. 794PR658 ..... **$2099.00**

Enclosure (with side panels) Total Rack Space: 44U: Dimensions: 83.4" x 22.1" x 32.6" .....
No. 794PR659 ..... **$1699.00**

Expansion Enclosure (with baying hardware) Total Rack Space: 44U: Dimensions: 83.4" x 22.1" x 32.6
No. 794PR660 ..... **$1649.00**

Enclosure (with side panels) Total Rack Space: 24U: Dimensions: 48.4" x 22.1" x 32.6
No. 794PR661 ..... **$1499.00**

Expansion Enclosure (with baying hardware) Total Rack Space: 24U Dimensions: 48.4" x 22.1" x32.6
No. 794PR662 ..... **$1449.00**

SmartRack Mounting Rails and Accessories

Compaq Mounting Rails (2 pair)
No. 794PR663 ..... **$149.00**

Compaq 2500R Mounting Rails (1 pair)
No. 794PR664 ..... **$99.00**

Hewlett Packard Mounting Rails (1 pair)
No. 794PR665 ..... **$79.00**

Hewlett Packard Mounting Rails (1 pair)
No. 794PR666 ..... **$79.00**

ALR Mounting Rails (1 pair)
No. 794PR667 ..... **$79.00**

NEC Mounting Rails (1 pair)
No. 794PR668 ..... **$79.00**

Fixed Shelf (Standard)
No. 794PR669 ..... **$89.00**

Fixed Shelf (Heavy Duty)
No. 794PR670 ..... **$119.00**

Sliding Shelf
No. 794PR671 ..... **$179.00**

Light Duty Cantilever Shelf
No. 794PR672 ..... **$59.00**

30" Angle Brackets
No. 794PR673 ..... **$59.00**

Blanking Panel Kit - 1U, 2U, 4U, 8U panels
No. 794PR676 ..... **$79.00**

Black Blanking Panel Kit - 1U, 2U, 4U, 8U panels
No. 794PR677 ..... **$79.00**

Additional Hardware Kit - mounting screws, nuts, etc
No. 794PR678 ..... **$39.00**

Bolt Down Kit
No. 794PR679 ..... **$69.00**

Cable Mgmt. Kit - 6 loops with mounting hardware
No. 794PR680 ..... **$69.00**

Panel Mount Dual Fan
No. 794PR681 ..... **$229.00**

Keyboard/Mouse Tray (2U with cable management arm)
No. 794PR674 ..... **$229.00**

Black Keyboard/Mouse Tray (2U with cable management arm)
No. 794PR675 ..... **$229.00**

A B C D

A. Multiple Outlet Strips Compact Group

Useful where size is a consideration. 8-5/8" x 2-3/8" x 1-1/2". Max. rating: 15A, 125VAC, 60 Hz, 1875 W, continuous duty. Gray steel case. **Std. Model Specs:** 8-1/4" centers. Cord: 14/3 SJT, molded plug. Five outlets. 6 ft. cord. No pilot light. **(USA)**

No. 856BE086 Without Circuit Breaker **$14.75**
No. 856BE194 With Circuit Breaker **$22.30**

B. Mid-Length Group

Popular in industry, offices and labs. Comes with switch, pilot light, circuit breaker, & 15' cord. 3 wire. Measures 13-1/8"L x 2-3/8"W x 1-1/2"D. Max. rating: 15A, 125VAC, 60Hz. Seven outlets with one on end. Blue steel case. **(USA)**

No. 856BE160 ..... **$37.00**

C. Deluxe Group

Provides a number of grounded outlets in a small area. All have circuit breaker protection and master switch with built-in pilot light. 13-7/16"L x 4-1/4"W x 1-1/2"D. Max. rating: 15A, 125VAC, 60Hz.; Four Keyhole-slot brackets, centers 10-11/16" x 2-3/4". Cord: 14/3 SJT, molded plug. Blue steel case. 10 (five duplex) Outlets, 15' cord. **(USA)**

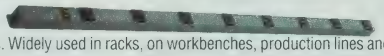
No. 856BE232 ..... **$49.00**

D. Premier Group

A lower profile contoured shape. All have circuit breakers. Max. rating: 15A, 125VAC, 60Hz. Outlets: Six "U" ground duplex. Beige-12" steel case. Pilot lite included.

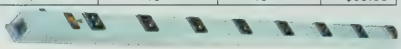
No. 856BE262 6' Cord Length **$25.45**
No. 856BE260 15' Cord Length **$29.55**

Trim Line



Rugged, versatile strips. Widely used in racks, on workbenches, production lines and lab tables. No wiring to do. Each has a circuit breaker, with switch and pilot light. Outlets: "U" ground (duplexes). Max. rating: 15A, 125VAC, 60Hz. Cord: 14/3 SJT with molded plug. Component color: Black (switch has built-in amber pilot light). Power supply cord: 14/3 SJT with molded plug. Blue steel case. **(USA)**

TT No.	Case Length	No. of Outlets	Cord Length	PRICE
856BE218	4'	8	6	$51.95
856BE222	4'	15	6'	$61.00
856BE220	4	15	15'	$65.35



Trimline Surge Suppressors

These versatile, multi-length surge suppressors are widely used in racks, workbenches, production lines, lab tables and any other place where sensitive electronics need to be protected. All feature a master switch/pilot light and circuit breaker. Outlets "U" ground. Maximum single current: 36,000A, 450J. 15A/125VAC, 60 Hz., 1875W continuous duty. **(USA)**

No. 856BE515 Fifteen outlets; fifteen foot cord **$82.95**
No. 856BE196 Nineteen outlets, six foot cord **$87.50**

Programmable Daily/Weekly Time Switches

Common Features:
Program up to 12 ON/OFF (6 ON and 6 OFF) switchings/day or week. Easy to install and operate. LCD displays day, time and program function. "Override" interrupts existing program. Built-in real time clock with one year battery backup. Maintains memory for one year.

A B

A. Wall Mount Hard-Wired Time Switch
Large backlit LCD display. Safety terminal connections for input and output. LED indication or relay status. Hinged door protects programming keys and prevents tampering. Built-in relay handles loads to 20A.

No. 355AC040 Standard Protector **$59.00**

B. Plug-in Time Switch
Three-prong plug and socket for connection.

No. 355AC038 Standard Protector **$39.00**

Isobar® Premium Surge Suppressors

Isobars are the world's most trusted premium surge suppressor with more than 12 million in use worldwide! Exclusive isolated filter banks eliminate interference between connected equipment. All-metal housing is virtually indestructible. Ultra models feature Diagnostic LEDs that alert you to potential power problems before equipment is put at risk. Up to $50,000 Ultimate Lifetime Insurance covers connected equipment; lifetime product warranty.

TT No.	Outlets	Joules	Insurance	PRICE
794TE100	4	2200	$50,000	$89.95
794PR600	6	2350	$50,000	$104.95
794PR601	6+RJ11+COAX	2850	$50,000	$119.95
794TE101	8	2350	$50,000.	$116.95
794PR602	12 (Rackmount)	750	$25,000	$169.00
794PR603	12 (Rackmount)	1200	$25,000	$149.00

Line Conditioners

Line Conditioners constantly monitor incoming voltage and adjust it to provide connected equipment with constant 120V power. Also provide premium surge, spike and RFI/EMI line noise filtering. Up to $25,000 Ultimate Lifetime Insurance covers connected equipment; 2-year warranty.

TT No.	Watts	Outlets	PRICE
794PR608	600	4	$120.00
794TE109	600	4	$159.00
794TE110	1200	4	$229.00
794TE111	1800	6	$299.00
794TE112	2400	6	$399.00
794PR609	2400	14 outlets (rackmount)	$499.00

PowerVerter® Plus DC-to-AC Inverters

Covert 12V DC (or 24V DC) battery power into nominal 120V AC current. Ideal for use in cars, service vehicles, trucks, and more. PowerVerter Plus Inverters are frequency controlled to assure precise 60Hz (±fi Hz output) and short term 200% peak power capacity for starting heavy loads such as microwaves , etc. Integrated battery charger ensures peak performance. **(USA)**

TT No.	Watts	Outlets	PRICE
794PR611	500	2	$255.00
794TE129	1000	2	$369.00
794TE130	2000	2	$529.00
794PR612	2400	2	$769.00

*24V input / 120V output model

APS (Alternative Power Sources)

APS units automatically sense and switch to AC output between outside power and battery power when no AC power is available. Ideal for use as mobile power systems or stationary UPS/emergency power supplies. Models include an advanced 3-stage battery charger for quicker recharge, plus protection against over-charge and over-discharge to ensure a longer service life from batteries. High-efficiency output is frequency-controlled to support delicate loads. **(USA)**

TT No.	Watts	Outlets	PRICE
794PR613	500	2	$395.00
794PR614	900	2	$525.00
794PR615	1000	2	$550.00
794PR616	2000	hardwire	$849.00
794PR617	2400	hardwire	$1045.00

*24V input / 120V output model

SmartPro® RM UPS Systems

Protect rackmount equipment and servers

Intelligent network-ready battery protection for networks and servers. Control up to 3 servers running different operating systems with included PowerAlert Software. Automatic voltage regulation corrects brownouts and overvoltages to supply connected equipment with constant 120V power. "RT" model features unique 1U rack/tower cabinet design. $50,000 Ultimate Lifetime Insurance covers connected equipment. **(USA)**

TT No.	V/A Watts	Outlets	Typical Runtime	PRICE
794PR637	450/280	5+LAN	20 min.	$299.00
794PR638	700/450	8+(2)LAN	45 min.	$599.00
794PR639	1050/705	8+(2)LAN	65 min.	$749.00
794PR640	1400/940	8+(2)LAN	75 min.	$929.00
794PR641	2200/1700	8+(3)LAN	4 hr.	$1517.00
794PR642	3000/2400	8+(3)LAN	8 hr.	$1969.00

Unison® SmartOnLine UPS Systems

Protect servers and telecom systems

Continuous on-line operation and extended-run capability protects critical servers, POS systems and telecom equipment. Included PowerAlert Software provides intelligent network power management and control. 1kVA and 2.2kVA models feature a unique 2U rack/tower cabinet design. 6kVA and 10kVA hardwire models feature serial port and AS400 communications, 208-240V input/120-208-240V output and digital control panel. $100,000 Ultimate Lifetime Insurance covers connected equipment.

TT No.	V/A Watts	Outlets	PRICE
794PR643	1000/800	6	$649.00
794PR644	2200/1600	6	$1499.00
794PR645	6000/4200	hardwire	$5499.00
794PR646	10,000/700	hardwire	$9499.00
794PR647	Optional external battery pack with integrated charger		$2499.00

Super Series Surge Suppressors

Effective and economical surge, spike and RFI/EMI line noise protection for all electronics. Select models include RJ11 jacks for modem/fax line surge suppression and coax jacks for coaxial line protection. A wide variety of sizes and configurations protects a range of applications. Up to $50,000 Ultimate Lifetime Insurance covers connected equipment.

TT No.	Outlets	Watts	Typical Runtime	PRICE
794PR648	7	1050	$25,000	$27.95
794TE102	6+RJ11	1200	$25,000	$38.50
794PR649	8	1200	$35,000	$44.95
794PR650	6	1500	$50,000	$59.95
794PR651	6	2100	$50,000	$69.95
794PR652	8+RJ11	1500	$50,000	$59.95
794PR653	10+RJ11	2800	$50,000	$79.95
794PR654	10+RJ11+COAX	2100	$50,000	$89.95

Ultra-Compact PowerVerter® DC-to-AC Inverters

Harness the battery power of any vehicle to operate mobile office equipment, electronics and tools. Peak power wattage helps start up heavier inductive loads. Slim housing design slips easily into any glovebox or briefcase.

TT No.	Watts	Outlets	PRICE
794TE104	140	1	$47.00
794PR300	300	2	$89.95
794PR610	500	3	$169.95

BC Series UPS Systems

Protect PCs and bench equipment

Provide affordable battery backup for personal computers. Built-in surge and line noise protection. Include serial port for use with PowerAlert Software to provide automatic unattended shutdown. $25,000 Ultimate Lifetime Insurance covers connected equipment.

TT No.	V/A Watts	Outlets	Typical Runtime	PRICE
794PR624	600/345	6+RJ11	45 min.	$209.00
794TE122	1050/705	6	65 min.	$449.00
794TE123	1400/940	6	75 min.	$569.00

Internet Office™ UPS Systems

Protects Internet-Ready PCs

Internet Office UPS Systems provide complete desktop protection in a single compact unit. 6 outlets (3 UPS/surge, 3 surge-only) protect your entire computer setup—including heavy-draw printers. 500 and 700 VA models provide two-line modem/fax surge protection and unattended shutdown with free software. 280VA model protects a modem/dataline against surge damage. $25,000 Ultimate Lifetime Insurance covers connected equipment.

TT No.	V/A Watts	Outlets	Typical Runtime	PRICE
794PR625	280/150	6+RJ45	15 min.	$99.50
794TE124	500/280	6+RJ11	30 min.	$159.00
794TE125	700/425	6+RJ11	45 min.	$239.00

OmniSmart™ UPS Systems

Protect critical equipment, servers and workstations

Line interactive battery backup for personal computers and networks. Automatic voltage regulation corrects brownouts and overvoltages to supply connected equipment with constant 120V power. Serial port and included PowerAlert Software allow automatic unattended shutdown. $50,000 Ultimate Lifetime Insurance covers connected equipment.

TT No.	V/A Watts	Outlets	Typical Runtime	PRICE
794PR626	500/300	6+RJ11	30 min.	$276.00
794PR627	700/450	6+RJ11	45 min.	$249.00
794PR628	1050/705	6	65 min.	$539.00
794PR629	1400/940	6	75 min.	$677.00

SmartPro® NET UPS Systems

Protect network servers

Intelligent network-ready battery protection for networks and servers. Control up to 3 servers running different operating systems with included PowerAlert Software. Automatic voltage regulation corrects brownouts and overvoltages to supply connected equipment with constant 120V power. $50,000 Ultimate Lifetime Insurance covers connected equipment.

TT No.	V/A Watts	Outlets	Typical Runtime	PRICE
794PR630	500/300	6+USB	30 min.	$169.00
794PR631	700/450	6+LAN	45 min.	$599.00
794PR632	700/450	6+USB	45 min.	$229.00
794PR633	1050/705	6+LAN	65 min.	$749.00
794PR634	1400/940	8+(2)LAN	75 min.	$929.00
794PR635	2200/1700	6+(3)LAN	4 hr.	$1517.00
794PR642	3000/2400	8+(3)LAN	8 hr.	$19.69.00
794PR636	33-amp hour battery pack for SMART2200 & 3000 models			$349.00

Cooper/Gardner Denver Wire Wrap® Tools

Electric Powered Wire Wrap® XA4

Ergonomically built for two-finger operation. Comfortable, lighter trigger pressure, reduces hand & wrist fatigue. "Operator Adjustable Indexing" features six separate positions for operator preference. Slim, lightweight, durable quality. Designed for service work and medium production.

No. 272WI370 Backforce **$205.00**

COOPER

Electric Powered 14YB3 Series Wire Wrap

Heavy-duty wire-wrap tool with a powerful motor & high-impact-resistant plastic housing for wire sizes 18-32 AWG. Speed is 4500 RPM. All models are double-insulated, insulated collet nut, and 8 ft. two-wire cord. Wt.: 1.2 oz.

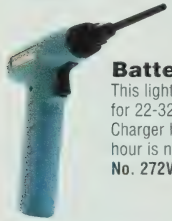
No. 272WI034 Standard **$374.00**
No. 272WI036 Cut, Strip, Wrap **$283.00**
No. 272WI038 Backforce **$283.00**

COOPER

Cut, Strip & Wrap Bits & Sleeves

Designed to cut solid copper wire, strip free the length of insulation and wrap the correct number of bare wire loops around a terminal pin. Three functions in one rotating operation. Right or left-handed operation.

TT No.	Wire Size	Insulation Diameter Range	Term. Hole Dia.	Min. Term Spacing	"A" Dia.	Insulated Loops No.	PRICE
731WI281	28 AWG	0.022-.025	0.038	0.102	0.130	3/4	$190.00
731WI301	30 AWG	0.019-.021	0.038	0.100	0.130	3/4	$190.00

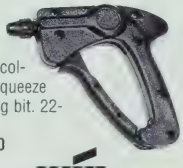


Battery Powered R3 Series

This lightweight tool has a rugged, reinforced plastic housing for 22-32 AWG wire. Rechargeable nickel-cadmium battery. Charger has recharging indicator light. A fast charge of one hour is needed for full charge. 120VAC/60Hz; 3000RPM.

No. 272WI273 Backforce **$325.00**

Manual 14HPIC Wrapping/Unwrapping Tools



Squeeze handle and a quality solderless wrap is made. Strong, lightweight plastic housing. Universal collet accommodates all wrapping bits & sleeves. One squeeze of the handle provides ten revolutions of the wrapping bit. 22-32 AWG. Right Hand Rotation.

No. 272WI326 ..... **$107.40**

COOPER

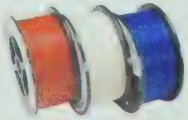
Solderless Wrapping Bits & Sleeves

These universal bits and sleeves fit all electric and manual *(Gardner Denver and OK)* tools.

Bit TT No.	Bit PRICE	Sleeve TT No.	Sleeve PRICE	AWG	Wrap Type	Ter. Dia. Max. In.
272WI160	$34.25	272WI218	$16.25	22-24	S	0.074
272WI162	$48.25	272WI218	$16.25	24-26	M	0.074
272WI164	$51.05	272WI222	$25.50	26	S	0.039
272WI208	$42.40	272WI222	$25.50	30	M	0.036

M = Modified S = Standard

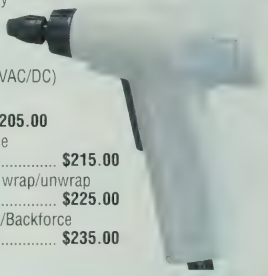
Wire Wrap Wire



The wire comes on 1000 ft. spools in 30 AWG sizes.

No. 272WI088 White **$76.10**
No. 272WI090 Red **$76.10**
No. 272WI092 Blue **$76.10**

OK-20®/OK-21®/OK-30® Electric Wire Wrapping Tool with Unwrap Option



Longer handle extends below the heel of the hand. High-speed (4000 RPM) motor. Lightweight balance. High-torque, planetary gear drive. Wrap 18 to 30 AWG (1.0 to 0.25 mm). Lightweight - Only 13 oz. (370g) with an ABS housing.OK-20 features a light-pull, two-finger slide trigger to reduce trigger finger fatigue. (OK-20/OK-21= 115VAC/DC; OK-30= 230VAC/DC)

OK-20: Two Finger Trigger
No. 606WI200 ..... **$205.00**
OK-20-BF: Two Finger Trigger w/Backforce
No. 606WI005 ..... **$215.00**
OK-21-BF-U: Single Trigger w/Backforce; wrap/unwrap
No. 606WI017 ..... **$225.00**
OK-30-BF: 230 VAC Two Finger Trigger w/Backforce
No. 606WI032 ..... **$235.00**

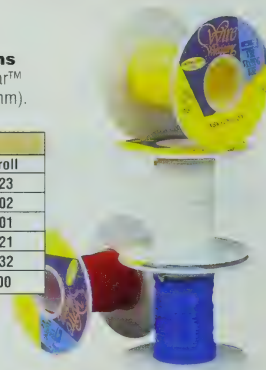
Cut, Strip, Wrap Bits & Sleeves; For use with: OK-20

Bit & Sleeve Set TT No.	Wire Size AWG	Type Wrap -	Ter. Dia. Max. In.	Ter. Dia. Min. In.	Hole Depth In.	Ter. Space In.	Wire Insul. Dia. Max. In.	Wire Insul. Dia. Min. In.	PRICE
606WI489	30	Mod.	.035	.031	.036	.75	.100	.021	.019	$235.50
606WI0026	26	Mod.	.035	.031	.040	.75	.100	.030	.026	$235.50

KSW Wire Wrapping Wire Rolls

For Cut/Strip Wrap Applications

30 AWG (0.25mm) Low Strip Force, Kynar™ Insulated Wire - Diameter 0.0195" (0.50mm).



JUST THE FACTS		
Color	100 ft. roll	1000 ft. roll
White	606WI490	606WI123
Yellow	606WI494	606WI102
Blue	606WI486	606WI201
Red	606WI0031	606WI321
Black	606WI310	606WI332
PRICE	$11.85	$71.00

Wire Cut & Strip Tools

For wire-wrapping applications. Place up to four wires in stripping slot, press tool and pull– wire is cut & stripped for "wire wrapping." Hardened blades. Strip length adjustable.

TT No.	AWG	"Shiner Length" of stripped wire	PRICE	Blade No.	PRICE
606WI994	22-24	1-5/16" to 1-9/16"	$35.00	606WI770	$5.75
606WI000	24	1-5/16" to 1-9/16"	$35.00	606PA724	$5.75
606WI016	26	7/8" to 1-1/8"	$35.00	606WI784	$5.75
606WI004	28	7/8" to 1-1/8"	$35.00	606PA028	$7.00
606WI006	30	7/8" to 1-1/8"	$35.00	606WI788	$7.00
606WI768	30	7/8" to 1-1/8"	$49.00	–	–

Manual Wire Wrapping Tools

Designed with a chuck nose piece to make use of the full line of bits and sleeves made for power tools. These tools are used with 22-32 AWG wire and provide a maximum of ten turns. Ideal for field service, production and the telecommunications industry.

No. 606WI558 Aluminum Casing..... **$129.00**

No. 606WI564 Lexan Casing **$93.50**

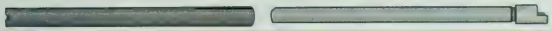
Insulated Manual Wire Wrapping Tool

New!

This manual wire wrapping tool is coated with an insulative material that provides 1000V dielectric strength to help prevent shorting between the pins of main distributing frames and other equipment. The collet-style nosepiece allows for easy installation of industry standard bits and sleeves.

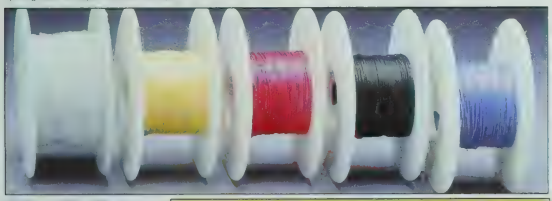
No. 551WI327 ..... **$139.00**

OK® Wire Wrapping Bits & Sleeves



Wire Gauge (AWG)	Bit TT No.	PRICE	Sleeve Part TT No.	PRICE	Terminal Hole (Inches) Dia.	Terminal Hole (Inches) Depth
22	606WI724†	$40.00	606WI798	$15.50	0.075	0.750
22	606WI1096*	$38.50	606WI798	$15.50	0.075	1.000
22-24	606WI726†	$31.50	606WI798	$15.50	0.075	0.807
24	606WI736†	$36.00	606WI800	$15.50	0.075	0.750
24	606WI106*	$43.55	606WI798	$15.50	0.075	0.750
26	606WI746†	$40.00	606WI800	$15.50	0.075	1.000
26	606WI118*	$41.10	606WI802	$24.50	0.040	0.750
26	606WI114*	$43.55	606WI798	$15.50	0.075	1.000
28	606WI122*	$41.10	606WI804	$24.50	0.036	0.750
30	606WI980*	$39.75	606WI804	$24.50	0.036	0.750
30-32	606WI126*	$41.10	606WI804	$24.50	0.040	0.750

†Regular wrap. *Mod. wrap.



Wire Rolls

Kynar™ Insulated, silver-plated copper conductor. UL Listed.
30 AWG (0.25mm) Insulation Diameter 0.0195" (0.50mm)

JUST THE FACTS		
Color	100 ft. roll	1000 ft. roll
White	606WI302	606WI918
Yellow	606WI303	606WI300
Blue	606WI0300	606WI0001
Red	606WI0301	606WI103
Black	606WI0010	606WI003
PRICE	$9.20	$38.45

Wire Reel Holder

For all harness, assembly & wiring work. Equipped with a tension bar to keep reels revolving without backlash. Unit can be folded flat for storing. Holds four wire reels of 6" width, max. diameter 10".

No. 606WI950 ..... **$63.00**

Kynar™ Insulated Wire Rolls

Tri-Color Dispenser

Three rolls of wire in each dispenser includes one each of blue, red and white AWG 30 (0.25mm) KYNAR® insulated wire. Built-in plunger cuts wire to desired length; built-in stripper strips 1" of insulation.

No. 606WI136 ..... **$25.00**

For cut, strip & wrap applications.
Wire size 30 AWG.

606WI486 Blue, 100 ft. ..... **$11.85** **606WI490** White, 100 ft. ... **$11.85**
606WI494 Yellow, 100 ft..... **$11.85**

Hand Wrapping & Unwrapping Tools

Manual Wrap/Strip/Unwrap Tools

Wrap, unwrap and strip the appropriate wire diameter. For field service and repair.

No. 606WI1164 Modified wrap, 22-24 AWG **$34.00**
No. 606WI042 Modified wrap, 24 AWG **$37.00**
No. 606WI1166 Regular wrap, 30 AWG **$21.00**
No. 606WI1168 Modified wrap, 30 AWG **$22.00**

Wrap Tools

TT No.	Reg	Mod	Wire Size AWG	Terminal Hole Dia.	Terminal Hole Depth	PRICE
606WI588	X	–	20	.075	1.000	$52.50
606WI592	X	–	22-24	.075	.807	$52.50
606WI596	X	–	22-24	.086	1.000	$52.50
606WI610	–	X	26	.040	.750	$55.00
606WI612	–	X	30	.036	.750	$55.00

Type D

Type E

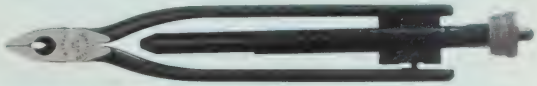
Type A

TT No.	Type	Wire Size AWG	Type	Terminal Hole Dia.	Terminal Hole Depth	PRICE
606WI1054	E	20-26	Left/Right	.070	1.00	$22.00
606WI1056	D	20-26	Left	.070	2.360	$22.25
606WI1068	A	20-26	Left	.070	1.000	$17.00
606WI1064	A	24-32	Left	.038	1.000	$17.00
606WI1086	E	24-32	Left/Right	.038	1.000	$22.00
606WI1078	D	28-32	Left/Right	.038	.750	$35.00

Wrap/Unwrap Tools

One tool that does the job of two. Quick, convenient & easy to use. *To switch from wire-wrapping to unwrapping takes only seconds*–just a quick change of the cap from one end to the other.

	Wrapping Side						Unwrapping		
TT No.	Reg	Mod	Wire Size AWG	Max. Insul. Dia.	Term. Hole Dia.	Term. Hole Depth	Term. Hole Dia.	Term. Hole Depth	PRICE
606WI620	X	–	22-24	–	.075	.807	.070	1.00	$72.25
606WI624	X	–	26	–	.075	1.00	.070	1.00	$72.25
606WI628	–	X	26	.031	.040	.750	.038	1.00	$84.50
606WI630	–	X	30	.027	.036	.750	.038	1.00	$84.50



Fast Action Wire Twisters

Features twister bearing, precision spiral activator, improved locking mechanism, metal knob. Handles safety wire .015" to .060" diameters. Grips, twists clockwise and cuts safety wire. Squeeze, press button–it locks. Squeeze again–it unlocks. Jaws tapered for easy access. Manual. 12" OAL. *NSN-5120-00-542-4171*

No. 568PL020 **$93.00**

ETC50™ Cordless Staple Gun Kit

This versatile, Instant Fire, cordless electric staple gun speeds up and simplifies a wide variety of fastening applications on the job. **Features**: flush front, gets into tight corners; solid state electronics for rapid fire operation; patented, precision-locked, jam-proof mechanism, contoured design for perfect balance and tireless handling. Loads (85) arrow #T50 staples only of .050 wire. **Contains**: (1) cordless electric staple gun; (1) rechargeable battery pk; (1) 7.2V Battery Charger.

No. 166PR050 ..... **$210.00**

Battery Charger & Battery Pack

One hour quick charge rechargeable Ni-Cad for use of cordless tools requiring a 7.2V rechargeable battery.

No. 166PR7200 ..... **$50.00**

CG072 Battery Charger

This one hour quick battery charger charges most 7.2V/6 cell nickel-cadmium batteries. Indicator light goes off when battery is fully charged. Has solid state circuitry, and is double insulated.

No. 166PR072 ..... **$50.00**

No. T50® Staples

No. 166PR505 5/16" **$2.60**
No. 106PR506 3/8" **$3.00**
No. 166PR508 1/2" **$3.15**

Arrow Fastener Wire Tackers

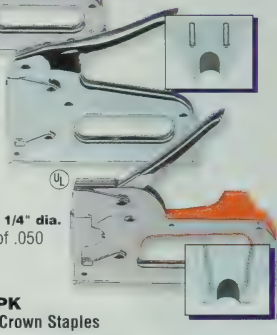
T-18™ Low Voltage Wire

Tack wire up to 3/16" diameter for electronics & more.

No. 166MI010 .... **$43.75**

T-18™ Staples 1000/pk

No. 166MI012 3/8"(10mm)..... **$2.15**
No. 166MI014 7/16"(11mm)..... **$2.15**



T2025™ - Attacker Dual Purpose Staple Gun

Shoot Flat Crown and Round Crown staples. This stapler features a built-in staple height adjustment. The guide can be adjusted for shooting Flat Crown staples flush and Round Crown staples will safely over wire and cable from 1/8" to 1/4" dia.

No. 166PR202..... **$29.30**

T-25™ Low Voltage Wire Staple Gun up to 1/4" dia.

Loads 85 T-25 staples with 1/4" crown-wedge or divergent pointed-of .050 wire in 9/32", 3/8", 7/16" and 9/16" leg lengths.

No. 166MI016 ..... **$43.75**

Staples for T-25 & T2025 - 1000/PK

Arrow® Crown Staples			Arrow® Flat Crown Staples		
No. 166MI018	3/8" (10mm)	**$2.15**	**No. 166PR205**	5/16" (8mm)	**$2.20**
No. 166MI020	7/16" (11mm)	**$2.15**	**No. 166PR206**	3/8" (10mm)	**$2.30**
No. 166MI022	9/16" (14mm)	**$2.25**	**No. 166PR208**	1/2" (12mm)	**$2.35**

T-37™ Wire/Cable Staple Gun - Fits up to 5/16" dia.

No. 166MI370 (Not Shown) **$43.75**

Staples for T-37™

No. 166MI376 3/8" (10mm) **$2.30**
No. 166MI378 1/2" (12mm) **$2.45**
No. 166MI379 9/16" (14mm)..... **$2.75**

T-50™ PBN Staple & Nail Gun

An all steel, jam-proof mechanism staple gun with cushion handle. Features: hi-carbon, hardened steel parts, easy squeeze handle and see-thru refill window.

No. 166PA500 ..... **$33.50**

T-50 Staples

No. 166PR505 5/16" (8mm). **$2.60** **No 106PR506** 3/8" (10mm). **$3.00** **No 166PR508** 1/2" (12mm). **$3.15**

T-50 Brad Nails

No 166AC810 5/8" (15mm) **$3.10**

T-59™ Wire & Cable Staple Gun

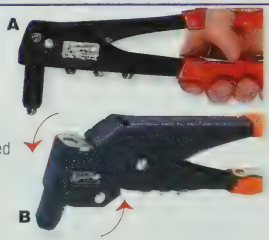
Fits wire up to 5/16" diameter. Ideal for: Telephone, TV, Cables, Intercom and alarm systems. Approved by Belden, Comsco and Times Fibre. **(USA)**

No. 166PR059..... **$50.00**

RG-6™ Staples Insulated

Clear, 1/4"H x 1/4"W x 3/16"D	Black, 5/16"H x 5/16"W x 5/16"D	Clear, 1/4"H x 5/16"W x 1/4"D
No. 166PR168 ..... **$7.35**	**No. 166PR189** **$7.35**	**No. 166PR188** **$7.35**

Arrow ProRivet Tool



Tool has all-steel construction and a comfortable, vinyl grip. Lock clip when not in use. Has four nose pieces with wrench, a spring-loaded handle for easy rivet loading and ejection, and an extended nose for hard-to-get-at places. Uses four rivet sizes: 1/8", 3/16", 3/32", and 5/32".

A. No. 166PR200 ..... **$22.25**

RHT300™ Twister™

Rivet in hard-to-get-at areas. The Twister's unique "twistable" head turns 360° to fit into tight corners and hallow spaces, while its handle remains accessible and easy to squeeze. Uses rivet sizes 3/32", 1/8", 5/32" and 3/16". (Taiwan)

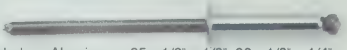
B. No. 166PL300 ..... **$30.00**

Aluminum Rivets-Medium-1/4" Grip. 100 per box.

No. 166MI182 ..... **$5.75**/Box

Industrial & Bulk Pak Rivets Available-Call.

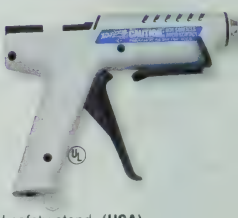
Rivet Assortment Kit - 120 pc



Aluminum and steel rivets includes: Aluminum: 25 - 1/8" x 1/8", 20 - 1/8" x 1/4", 15 - 1/8" x 1/2"; Steel: 25 -1/8" x 1/8", 20 - 1/8" x 1/4",15 - 1/8" x 1/2".

No. 166AC6120 ..... **$7.80**

Professional Auto Hot Melt Glue Gun™



Lever-feed mechanism ensures an even flow of glue time after time. For instant joining of wood, plastics, ceramics, metal, fabrics. No heat fluctuation. Silicon feed sleeve has a built-in flexible diaphragm designed for easier feeding & to seal off and eliminate hot melt back-up. **Kit Includes**: Trigger Gun with standard cone tip, easy action trigger and safety stand. **(USA)**

No. 302MI016 ..... **$26.00**

4" All Purpose Sticks (10/box)

No. 166AC104 ..... **$8.00**

4" All Purpose Sticks (24/box)

No. 302AD673 96 Lin. ft. **$7.50**

4" Slow Set Sticks (6 Sticks/Pkg)

No. 302AD675 96 Lin. ft. **$2.95**

Drive Grip™

Just one drop does the trick. *Drive Grip's* specially designed formula reduces slippage and damage with screwdrivers of all kinds, Hex Keys, Pliers, Channel locks, Vise grips, open-end and box-end wrenches. It's odorless, non-toxic, non-corrosive and wipes clean.

No. 591AD001 ..... **$4.50**

A. Saftlite® Stubby™ II *New!*

Designed with a bright sidelight and magnified end light for seeing into tight places. Has a convenient on-off button on side of handle to activate switch under the end cap. Switch is protected from dirt & moisture. Three way cushion located at the top end of the lamp provides protection from impact if dropped on end or side. Features a rough service 13 watt lamp that provides the same light as 75-100 watt incandescent. 25' cord switch in light head with tool tap. **(USA)**

No. 405LI502 ..... **$47.80**

B. 13W Plug-it™ Fluorescent Utility Light

Turn your extension cord into a fluorescent light! For those jobs where an incandescent utility light is inappropriate. Specially designed with a cool running 13 watt fluorescent bulb, this durable utility light safely generates maximum light in restricted areas. This light features a built-in rubberized hood and an impact resistant body and lens. The locking screw system assures secure cord connections. *(Cord not included.)* 15A/125V.

No. 227PR675 ..... **$26.50**

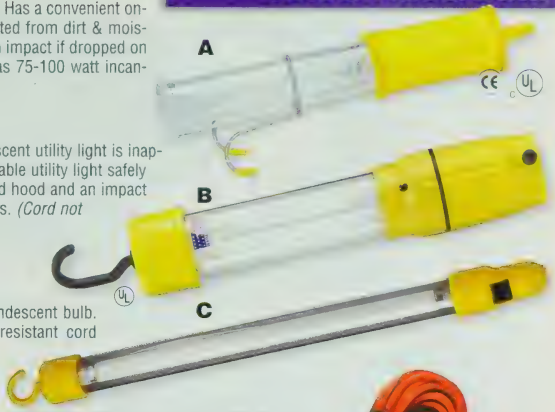
Hold It Or Hang It.

C. 15W Fluorescent Work Light

Cool, insulated, shatter-resistant. 15W bulb lights greater area than a 150W incandescent bulb. Safe to handle. Lightweight, heavy-duty construction with 25 ft. of yellow, oil-resistant cord grounded from encapsulated bulb to plug.

No. 792IN012 Work Light **$49.95**

No. 646MI014 Extra Bulb..... **$6.00**



Ideal Tuff-Grip™ Stainless Steel Fish Tape

Tuff-Grip™ stainless steel fish tape provides maximum pulling strength and easy rewinds. This stainless steel tape will not rust or corrode. Large Tuff-Grip™ non-slip handle increases stability for more winding control. **(USA)**

A. No. 462PR066 100' **$66.85**

No. 462PR067 200' **$87.70**

Ideal Tape-Pak™ Fish Tape with Footage Counters

This tape eliminates the need for marking, measuring, counting or guessing. Saves you time and trouble when working with multiple conduit bends, blind raceways, concealed or underground conduits, long conduit runs or conduit blockages. Easy-to-read counter features magnified, easy-to-reset numbers, a built-in winder and 1/8" x .060" tempered, spring-steel tape.

B. No. 462GA126 ..... **$82.75**

Klein Flat-Steel Fish Tape

This tape is made of highly durable 1/8" wide spring steel: the reel is made of high-impact Cycolac® for maximum durability and long life. Orange color gives high visibility on job sites, while the color-coded handle (black) instantly shows the type of tape in the reel. Reel protects and keeps tape under control, helps avoid kinks and saves time. It has four viewports to show exactly how much tape is left in the reel. Features a comfortable, easy-grip design.

C. No. 490PR210 100' tape.... **$49.90**

D. No. 490PR205 50' tape **$34.65**

Grip-It™ Fish Tape Puller

Simply insert the fish tape into the pulling slot at an angle, then firmly push the handle sideways while sliding forward towards the conduit. Once the tape is positioned under the wheel, pull back to operate. Push forward to release. **(USA)**

E.No. 490PR355 ..... **$10.35**

Outdoor/Indoor Powr-Center® Extension Cords

Three grounded outlets with three conductors. Safety orange for your protection. UL Listed. SJTW-A Type 15A-125V.

No. 227PR691 14/3, 25 ft. **$23.50**

No. 227PR696 12/3, 50 ft **$49.75**

Arctic/Tropic™ Portable Lights

CAROL

Three conductor lights have heavy-duty metal grounded bulb guard with switch and side outlet. Cord stays flexible to -58°F and withstands heat to +221°F. 16/3 SJEW-A cord, 13A-125V rating. 25 ft.

No. 227PR677 ..... **$16.50**

Portable Ground Fault Circuit Interrupter (GFCI)

Meets National Electrical Code Article 305-6a and OSHA Regulation 29 requirements for GFCI protection on temporary wiring at job sites. **Features:** clearly identified test and reset buttons; GFCI automatically resets in the event of power interruptions; water resistant housing, sealed by ultrasonic welding. **Specs:** Unit rating: 15A-125V. 1875W: Plug: NEMA 5-15P: Cord: 12/3 ST W-A yellow: GFCI: 20A rating. 3 outlet. **(USA)**

No. 334BE402..... **$47.85**

Wire Cart

Ideal Smart Cart™

The Smart Cart™ Transportable Wi Dispenser enables you to efficiently move an store wire. Separate, detachable hand racks carry up to 15 spools of wire. A wire guide is available to minimize snagging and allow wire to be pulled through wall openings.

17" Wire Rack only

No. 462BE725 ..... **$39.20**

Wire Guide

No. 462BE740 ..... **$49.35**

Multi-Master® Aluminum Ladder

This aluminum ladder allows you 18 different positions to work with to get the job done. The 3-position Multi-Lok® hinge allows for double stepladder, stepladder, stairwell ladder, multi-shelf, stand-off ladder, fully extended straight ladder, 1/2 & 3/4 length ladder, self-supporting scaffold, extended span scaffold, stairwell scaffold, plus more. **Features:** slip-resistant multi-directional round rungs; Twist-Proof® ladder sections due to the exclusive ALFO® rung joints; and slip-resistant feet. Capacity: 300 lbs. **(USA)**

Closed: 3'-4-5/8"H; Scaffold: 3'H; Stepladder: 6'H; Straight Ladder: 12'L.
No. 874PR612 ..... **$231.90**

Closed: 4'-4-5/8"H; Scaffold 4'H; Stepladder: 8'H; Straight Ladder: 16L'.
No. 874PR816 ..... **$277.40**

WERNER

Ladder Stabilizer Bar

For use on aluminum ladders of all duty ratings. Attaches in minutes. Mar-resistant rubber caps protect work surface. Hardware, included **(USA)**
No. 874PR096 ..... **$26.25**

Fiberglass Stepladder

WERNER

This stepladder is designed with orange electrically non-conductive side rails. Features a Tool-Tra-Top® with drill holster and convenient tray for tools, and handy paint can hanger on back side of top. Has double riveted slip-resistant Traction-Tred® steps, and internal Pinch-Proof™ spreaders. Supported by molded brace and foot pad combination to provide enhanced bracing strength and increased protection against damage. Has a 300 lbs. load capacity. **(USA)**
Size: 4'; Width: 19-7/8"; Spread: 29"
No. 874PR204 ..... **$105.00**
Size: 6'; Width: 23-3/8"; Spread: 41-1/4"
No. 874PR206 ..... **$136.50**
Size: 8'; Width: 26-7/8"; Spread: 53-5/8"
No. 874PR208 ..... **$182.90**

Fiberglass Twin Step Stool

These step stools are designed with an orange electrically non-conductive side rails. The top steps provide wide standing platform. Has heavy gauge steel strap hinge, and slip-resistant Traction-Tred® steps. Features a Pinch-Proof™ spreaders, and combination rail end shield and foot with slip-resistant footpad. **Specs:** Size 2'; Width: 21-1/8"; Spread: 23"; Capacity: 300 lbs. **(USA)**
No. 874PR202 ..... **$106.75**

Ratchet Tie-Down

Rope with ratchet to tie down ladder.
No. 874PR015 ..... **$9.65**

Roller Tapes

A. Industrial Roller Tape

Perfect for measuring when conditions are tough and accuracy is critical. Features a heavy-duty 5-digit counter measure up to 10,000 ft without resetting. 3-piece telescoping handle with push button action. Folds to 18-3/4" and extends to 40-1/8". Has dual 4" diameter, wheels with 1' circumference. **(USA)**
No. 683PR112 ..... **$99.90**

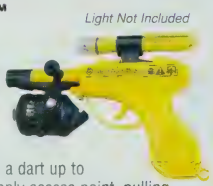
B. Foot or Metric Rolling Tape

Rolatape 300 is smooth rolling, accurate, to perform on pavement, dirt and rough surfaces. The heavy-duty 5-digit ratchet counter measures up to 100,000 feet or meters with convenient reset knob. Storing is easy with the lift-and-lock handle. Folds to 22-1/4" and extends to 40-1/4". Precision calibrated rubber 11-1/4" diameter, 3' circumference wheel. **(USA)**
No. 683PR300 ..... **$114.95**
No. 683PR310 ..... **$118.95**

C. Heavy Construction Roller Tape

Designed to handle your toughest measuring jobs in heavy construction, large operations, utilities, surveying and other critical measuring applications. The all steel construction is has heavy-duty strength and durability. The 15-1/2" diameter 4-foot circumference spoked wheel was designed for easier to measure accurately on rough terrain. Features a wheel stand to keep the wheel upright when not in use, and wheel brake to transport to a second site without losing existing measurement. Folds to 17" and extends to 45-3/4". **(USA)**
No. 683PR400 ..... **$142.75**

CableCaster™


Light Not Included

Speed your installation of lightweight communications cable through hard-to-reach spaces, such as suspended ceilings, rafters, and subfloors. CableCaster™ launches a dart up to 50 feet to the cable supply access point, pulling a durable monofilament line. The cable is attached to the dart, and pulled back with the CableCaster™ take-up reel. The plastic darts glow in the dark to help locate them in even dimly lit areas. Includes a flashlight holder that accepts the Mini Maglite® flashlight. **(USA)**

Wiring Pulling
No. 414PR618 (includes 3 darts) ... **$62.00**
Replacement Darts (pack of 4)
No. 414PR625 ..... **$6.25**
Pocket-Light Flashlight
No. 528LI014 ..... **$13.25**

Cable Push-Pull Rods

This cable push-pull rod is ideal for running multi-purpose cable in hard-to-reach places such as behind walls, up through crawl spaces, and under floors. The non-metal/non-conductive bright yellow polypropylene-coated rod protects delicate wires. Each rod: 60"L; 20' OAL. **(USA)**
Kit Includes: (4) Push- Pull Rods (20 ft. ea.); Pulling Eye; Grabit Hook; Magnet Locator and Carrying Bag.

No. 219PR010 Complete Kit **$101.15**

Options
A. No. 219PR001 Push-Pull Rods **$66.15**
B. No. 219PR060 Hook Wire **$7.40**
C. Pulling Sock 9-12mm (other sizes available)
No. 219PR002 ..... **$33.85**
D. Magnetic Locator/Retractor
No. 219PR003 ..... **$10.20**
E. No. 219PR004 Pulling Eye **$4.95**
F. No. 219PR005 Grabit Hook **$7.55**
No. 219AC100 Carry Bag *(Not Shown)*.... **$16.90**

Gopher Pole®

Wire Installation Tool

Use this handy tool for long spans in hard-to-reach areas, suspended ceilings, sub-floors, crawl spaces and attics to fish wire and more. Telescopes to 22 feet in seconds, compacts to 52" long x 2" dia. Easy to handle in tight spots. No assembly required. Made of non-conductive fiberglass.
No. 277PR001 ..... **$149.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

TECHNI-TOOL

Industrial Power Tools

A Techni-Tool Exclusive!

Compare and Save!

A. 18V Cordless Reciprocating Saw

This 18V Cordless Reciprocating Saw has an extended run 3 hr. rechargeable battery with a high-capacity Ni-Cad power cell. Includes: (6) Saws: 6", 3/4", .05", 150mm, 20mm x 1.3mm.
No. 758PR361 ..... **$199.00**

B. 18V Drill / Driver

This 18V Drill / Driver is designed with two variable speed settings, low 0-350 RPM and high 0-1200 RPM. **Features**: 1/2" Jacobs® heavy duty keyless chuck; extended run 3 hr. rechargeable battery with high-capacity Ni-Cad power cells; high torque, fan cooled motor; electronic brake; 16 torque setting. Kit includes: (1) driver/drill; (9) sockets; (6) drill bits; (4) driver bits; (1) dual driver bit; (1) magnetic extension; (1) carrying case. ***One-Year Warranty***.
No. 758PR722 ..... **$199.00**

C. 18V Contractor Series Circular Saw

This circular saw has an extended run 3 hr. rechargeable battery with high-capacity Ni-Cad power cell. **Features**: adjustable shoe for 0-50° bevel and depth cut adjustment; dust collection port; die-cast aluminum blade guard; 5-3/8" carbide-tipped, 24-tooth Vermont American™ Saw Blade.
No. 758PR355 ..... **$225.00**

D. 3.6V Cordless Screwdriver Kit - 46 pcs

This 3.6V Cordless Screwdriver features a foldable grip for convenience and 6 stages torque control. **Includes**: 3 hr. rechargeable battery; (14) sockets; (26) Driver Bits; (1) Socket Adapter; (1) Bit Holder.
No. 758PR280 ..... **$79.00**

Drill Bit Sets

Pathfinder® Bit Sets *New!*

The pathfinder's unique design with six different cutting edges allows it to cut forward, backward and on all sides. This bit makes precise, clean holes in wood, composites, chip boards, plasterboard and hard plastics. Multiple cutting surfaces spread the cutting load, allowing the bit to stay sharp much longer. **(USA)**
3 Piece Set Includes: 1/2", 3/4", and 1"
No. 575SC800..... **49.90**
5 Piece Set Includes: 1/4", 1/2", 3/4", 1" and 1-1/4"
No. 575SC802..... **86.40**

Industrial Drill Bit Set - 17 pc

Includes:
Drill Bits:
(2) 1/16",
(2) 5/64",
(2) 7/64",
1/8", 9/64",
5/32", 11/64", 3/16", 7/32", 1/4", 5/16",
3/8", 1/2"; Tough Pack™ Case.
No. 196SC181 ..... **$39.90** *New!*

Spade Bit Set - 6 pc

Includes: Spade bits: 3/8", 1/2", 5/8", 3/4", 7/8", 1"; Tough Pack™ Case.
No. 196SC149 .. **$37.90**

Cable Puller and Drill

Greenlee Li'l Tugger Cable Puller

Pull wire faster and easier on long and difficult runs that would normally be pulled by hand. Fits in small boxes for easy set-up, the Li'l Tugger wraps the pulling rope around the capstan to create the force needed for a fast, easy pull. **Specs**: Pulling Speed: 60' per minute; Pulling rope minimum average breaking strength: 1000 pounds; Length: 20"; Width: 10"; Weight/Mass: 20 pounds. (Drill sold separately) **(USA)**
A. No. 414PR120..... **$599.00**

Milwaukee Hole-Hawg® Drill

The Hole-Hawg® power and torque compact design for drilling between studs and joists. Features heat-treated gears, all ball and roll bearings, and triple reduction gearing handles up to 4-5/8" selfeed bits. Has a 2-position pipe handle, and 3-position spade handle. **Specs**: Capacity in steel: 1/2; AC Volts: 120; AMPS: 7.5; No Load RPM 900; Gear Train: Triple; Spindle Dia. and Tread: 5/8" - 16. **(USA)**
B. No. 575PR1670..... **$345.00**

Prices in this catalog are effective January 1, 2001. While we attempt to hold prices, we cannot control when our vendors increase prices.
We reserve the right to correct misprints.

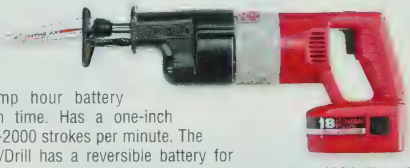
Milwaukee

18 Volt Combo Kit

The powerful rare-earth motor easily handles all applications. The soft-grip T-handle provides optimum balance and comfort while drilling. **Includes:** 18V Sawzall, 18V 1/2" Hammer Drill, two batteries, battery charger, keyless Quik-Lok™ blade clamp, and Contractor bag.
Specs: Sawzall: Trigger Speed Control: 0-2000 spm: Hammer Drill: 18V motor: two speed modes:0-500/0-1600 rpm. **(USA)**
No. 575PR523..... **$523.15**

18V Sawzall® and 18V T-Handle Hammer-Drill Combo Kit

New!



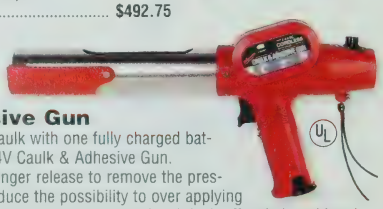
This combo kit features a 18V Sawzall® which cuts up to 60 2 x 4's on a single charge. The 2-amp hour battery delivers more run time. Has a one-inch length of stroke, 0-2000 strokes per minute. The 18V 1/2" Hammer/Drill has a reversible battery for working in tight spaces and better balance for overhead work. Has 400 in/lbs. of torque, speeds of 0-500/1600 rpm and hammer action at 20,800 bpm, with 20 different clutch positions. The T-Handle design provides optimum balance and comfort. **Kit includes:** (1) Sawzall; (1) 1/2" 18V Hammer-Drill with Keyless Chuck, (1) Power-Plus Universal One-Hour Charger; (2) 18V Power-Plus Batteries; (1) Super Sawzall Two-Blade Pack. **(USA)**
No. 575SC220 ..... **$475.00**

New!

18V Circular Saw & Hammer-Drill Combo Kit

This combo kit includes an 18V 6-1/2" Circular saw and an 18V 1/2" Hammer drill. The Circular saw cuts more 2 x 4's per battery charge than even 24V circular saw and easily cuts all 2X material at 45° Bevel Angle. Designed with a large 50° Bevel Capacity and superior balance. Features electric brakes for quick stops and 3200 RPM for fast cutting. The 18V 1/2" Hammer-Drill features 2.4Amp-hour reversible battery and all-metal Grip-Lok™ chuck. Has a maximum torque of 400 in-lbs. and trigger speed control of 0-500/0-1600; 0-20, 800 bpm. **(USA)**
No. 575SC024 ..... **$492.75**

Cordless 2.4V Caulk & Adhesive Gun



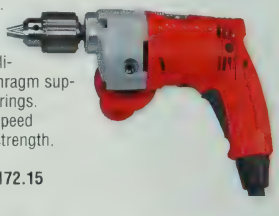
Expel up to 10 tubes of caulk with one fully charged battery with the Cordless 2.4V Caulk & Adhesive Gun. Designed with a rapid plunger release to remove the pressure on the plunger to reduce the possibility to over applying sealants and adhesives. Features trigger control with lock-off switch and hand strap to prevent tool from being dropped. **Specs:** Volts DC: 2.4; Speed Sec./Cartridge: 46-120; Length: 17". **(USA)**
No. 575PR550..... **$227.25**

Cordless Driver/Drill

This Cordless Driver/Driver is designed to provide optimum balance and comfort to get the job done. Has a 1/2" all-metal, Grip-Lok™ chuck for extreme durability, and variable speed witch with electronic brake. The 2.4 Amp-Hour battery delivers the most run time. The reversible battery pack makes working in tight spaces easy. Universal power-plus charger recharges battery packs in one hour with no memory effect. **(USA)**
Specs: Volts DC: 18; Speed RPM High/Low: 0-1500/0-450; Max. Torque In. lbs: 400; Battery AMP-HRS: 2.4; Length: 10.25".
No. 575SC224 ..... **$344.25**
Specs: Volts DC: 14.4; Speed RPM High/Low: 0-1450/0-450; Max. Torque In. lbs: 390; Battery AMP-HRS: 2.4; Length: 10.5".
No. 575SC622 ..... **$270.00**

New!

1/2" Magnum® Hole-Shooter



1/2" trigger speed control reversing with powerful 5.5 AMP motor and removable brush cartridge system.
Features: ball and roller bearings, helical cut, heat treated gears for heavy-duty industrial/construction applications, aluminum gear case and diaphragm supplies greater support for shaft and bearings. Heavy-duty industrial chucks, trigger speed controls reversing switches and high strength, impact resistant handles. **(USA)**
No. 575PR023 ..... **$172.15**

1/2" Hammer-Drill

Trigger speed control for precision carbide-bit drilling in concrete and masonry or drilling without hammering in wood or metal. Includes depth gauge and side handle. **Features:** ball and roller bearings, adjustable side handle, depth rod easily adjusted by loosening side handle, hammer-drill up to 7/8" hole in concrete or masonry, turn collar for selection hammer-drill or drill only in wood and steel. 0-1350 RPM low, 0-3200 RPM high. **(USA)**
No. 575PR378 .... **$175.50**

4-1/2" Sander/Grinder

Powerful 5.5 AMP, 3/4 HP motor, 10,000 RPM, 5/8"-11 spindle size, lightweight and compact. This double insulated sander/grinder may be converted to a sander. **Features:** three position side handle, paddle switch for ease of operation, all ball and roller bearings spindle lock for easy accessory changes and aluminum gear housing. **(USA)**
No. 575PR140 ..... **$122.85**

New!

Power-Plus Driver/Drill Kit

Ideal for high torque level applications this 18V Power-Plus Driver/Drill has five planetary gears for high torque performance and durability. Designed with two speed ranges 0 - 450 and 0 - 1500 RPM. Has a variable speed switch with electric brake to stop quickly for optimal efficiency in repetitive applications. The high output motor delivers 400 In. - lbs. maximum torque. Features: 18V Power-Plus NI-CAD battery; Ergonomically designed T-Handle grip for superior balance during extended use; Power-Plus II fast charger. **Specs:** Speed RPM: High: 0-1500, Low: 0-450; Drill Max. TQ. in. - lbs.: 400; Battery Capacity: Amp - hrs: 2.0; watt - hrs: 36. **Includes:** Power-Plus Driver/Drill; Two Battery Packs; Power-Plus II Charger Worklight; Case. **(USA)**
No. 575SC222..... **$340.90**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Cordless Screwdrivers

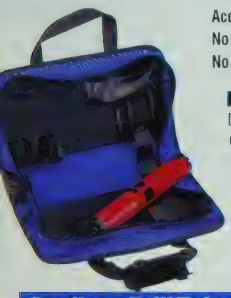
Single-Speed Screwdriver Kit - 7 pc

Includes: cordless screwdriver,battery pack, charger, 1/4" chuck attachment with key. 7 pc driver/drill bit kit and case.
No. 575SC012.... **$135.00**

Single-Speed Cordless Screwdriver Only

This cordless 190 RPM screwdriver has a convenient, two-position handle, forward/reverse button, switch lock, six-position clutch, torque to 22 in/lbs; uses standard 1/4" Hex bits. **Includes:** Single-speed cordless screwdriver, 2.4V battery pack and 120VAC one hr. charger. 9" OAL.
No. 575SC010 ..... **$104.25**

Accessories
No. 575AC012 Extra Battery Pack..... **$23.65**
No. 575AC014 Extra Battery Charger **$47.25**



Mini Zip Case

Designed to hold your cordless screwdriver charger and assorted accessories! This sturdy 1000 denier DuPont Cordura® Zip Case features sewn-in compartments and two medium and one large Velcro® closure to keep tools secure. Dim: 11-1/2"L x 3"H x 6"W. Color: Blue. Drill not included. **(USA)**
No. DAC1320 ..... **$37.50**

Milwaukee

Cordless Two-Speed 2.4 Volt Screwdriver Kit

This adjustable, swivel handle, cordless screwdriver conquers tight applications with ease. The reversing, 6-position, adjustable clutch, and 3.5 to 26 in./lbs. of torque allows two speeds: 400 and 200 rpm. **Kit includes:** two-speed cordless screwdriver battery pack, charger, chuck attachment, bit set, extra battery and carrying case. **(USA)**
No. 575PR722 ..... **$142.50**

Two-Speed Screwdriver Kit - 7 pc

Kit Includes: two-speed cordless screwdriver, battery pack, charger, 1/4" chuck attachment with key, 7 pc driver/drill bit set, and carrying case.
No. 575SC016..... **$142.50**

Two-Speed Cordless Screwdriver Only

High 400 RPM/LOW 200 RPM — this two-speed cordless screwdriver has a convenient two-position handle, forward/reverse button; switch lock; six-position, adjustable clutch; torque to 26 in/lbs. Uses standard 1/4" Hex bits. Includes 2.4V battery pack, 120V AC one-hour charger, two Phillips and one slotted bit. 9-3/8" OAL.
No. 575SC014..... **$112.50**
No. 575AC012 Extra Battery Pack **$23.65**
No. 575AC014 Extra Battery Charger **$47.25**

Cordless Drill/Drivers

18V, 1/2" Cordless Driver/Drill Kit

Delivers high performance and durability with five planetary gears for your high torque applications. Twenty-position torque adjustment for precise adjustment of screw penetration into your workpiece. The soft grip T-Handle pad reduces pressure points and provides a hand-conforming, non-strip gripping surface. **Includes:** two battery packs; Power-Plus II Fast Charger, 1/2" Metal keyless chuck, and case. **(USA)**
A. No. 575PR222..... **$282.15**

12V 3/8" Keyless Chuck Driver/Drill Kit

Designed for extended use applications this Driver/Drill features a T-Handle grip for superior balance. Has two speed ranges, 0-1100 RPM for general purpose drilling and screw driving, or 0-360 RPM when extra torque is required. **Includes**: Driver/Drill; (2) Battery Packs; Power-Plus Charger; 3/8" Keyless Chuck; Impact Resistant Carrying Case. **Specs**: Drill Max: 220lbs; Battery Capacity: Amps-HRS: 1.4, Watt-Hrs: 16.8; Length: 9.12. **(USA)**
B. No. 575PR223 ..... **$203.85**

14.4V, 1/2" Power-Plus™ Drill/Driver Kit

Your Kit includes a 1/2" Drill with a reversible battery pack which creates clearance to fit into cramped work spaces. Your variable-speed drill with electric brake has speed ranges from 0-450 RPM and 0-1250 RPM— developing up to 280 in./lbs. max. torque. **Kit includes:** 1/2" keyless chuck, two battery packs, battery, charger, drill & carrying case.
C. No. 575PR221 ..... **$228.15**

TuffWear™ Drill Holster

TuffWear™ padded drill holster is designed to fit most belts. Has three leather drill bits pockets and a strap to keep your drill in place. *(Drill and bits not included.)*
D. No. 534AC731 ..... **$7.70**

Drill/Drivers

For Heavy-Duty Industrial Applications!

E. 3/8" Keyless Chuck Hole-Shooters Drill

Double-insulated. 0-1700 RPM drill with 3/8 keyless chuck. **Features:** Trigger speed control — reversing switches; ball and roller bearings; Impact resistant handles; 120 VAC, 3.5A; 3-3/4 lbs. 9-1/4" OAL.
No. 575PR010..... **$116.80**

Take The Stress Out Of Close Quarter Drilling!

F. 3/8" Close Quarter Drill

The 55° angled chuck makes drilling in tight places fast and easy. **Features:** 0-1300 RPM; all ball and roller bearings; heat-treated gears for heavy-duty industrial use; comfort grip and paddle switch; high impact housing; quiet 120 VAC/3.5A; 3-1/2 lbs; 10" OAL
No. 575PR012 ..... **$191.25**

Xcelite® 3.6V 2-Speed Cordless Drill/Screwdriver

Fast and easy-to-use, this cordless Drill/Driver features standard 1/4" Hex accessories, eight-position clutch with torque settings of 6.5 in/lbs. to 27.5 in/lbs.; self-locking speed control; one-hour battery charge; and no-load speed of 180/360 RPM. **Includes:** driver, battery, charger, one slotted bit, two phillips bits and an adapter.

No. 272SC705 (XP1) **$110.00**
No. 272PR707 Replacement Battery **$25.50**
No. 272PR109 Replacement Charger **$35.20**

Power Screwdriver Kit - 12 pc

Designed for use with cordless rechargeable screwdrivers. **Contents:** stubby nutdrivers: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8"; stubby, slotted screwdrivers: 3/16",1/4"; stubby, Phillips screwdrivers: #1, #2; cordless-screwdriver adapter and vinyl pouch.

No. 272SO051 ..... **$22.30**

Makita Drills & Saws

Cordless Impact Driver Kit

New!

A

This Cordless Impact Driver Kit is the fastest in its class. Has externally accessible brushes for easy replacement, and a heavy-duty aluminum die cast housing for durability. Designed with an electric brake for fast stopping of bit. The variable speed of 0-2,200 RPM for controlled driving starts, and has conveniently located forward/reverse button. **Includes:** (2) Batteries; Charger; Battery Cover; Tool Case; Battery Clip. **(USA)**

A. No. 535AC914..... **$338.65**

12V Cordless Driver-Drill Kit

B

The compact tool body and T-handle design provides optimum balance and comfort. Has 2-speed gear selection with variable speed in each range (0-350 RPM or 0-1,100 RPM), and total control trigger. The keyless chuck is designed for fast and easy bit changes, and the electronic brake stops the chuck quickly. Features a 16 torque settings and a conveniently located forward/reverse switch. **Includes:** (2) Batteries; Keyless Chuck; Charger; Battery Cover; Phillips/Slotted bit; Tool Case. **(USA)**

B. No. 535AC227..... **$178.00**

1/2" Cordless Driver-Drill Kit

C

This Nickel-Metal Hydride powered drill runs 30% longer than other drills. Designed with industrial metal gear housing for durability and 2-speed gear selection (0-400 RPM or 0-1,300 RPM). Has externally accessible brushes for long tool life, and total control trigger with 17 torque settings. Features 1/2" keyless chuck and a conveniently located forward/reverse button. **Includes:** (2) batteries; Phillips/slotted bit; keyless chuck; charger; battery cover; tool case. **(USA)**

C. No. 535AC336 ..... **$332.35**

New!

1/2" Hammer Driver-Drill & Recipro Saw Kit

The 18V 1/2" Cordless Hammer Driver has 3 mode setting for hammer drilling, driving and drilling. Has externally accessible brushes and 16 torque settings. The single sleeve 1/2" keyless chuck with shaft lock for fast and easy one-handed bit installation and removal. The 18V Cordless Recipro Saw has "Toolless" blade change and shoe adjustment with a lock button to help prevent accidental starts. Has Variable speed (0-2,700 SPM) for precise cutting in a wide variety of materials, and cuts up to (21) 2 x 10's from a single charge. **Includes:** Charger; (2) Batteries; Tool Case. **(USA)**

No. 535AC034 ..... **$668.60**

New!

1" Rotary Hammer

This Rotary Hammer features 2 mode operation with rotation only or hammering with rotation. Designed with a 5.7AMP motor and a D-Shape handle for easy operation. Has a built-in torque limiter, and a 360° swivel side handle. You can easily change the bit by merely turning the chuck. **Includes:** Depth gauge; Tool Case. **(USA)**

No. 535AC420 ..... **$285.10**

Panasonic Cordless Driver

Cordless Drill & Driver Kit

This cordless drill and driver has a 22-stage clutch to offer you a more precise torque setting with a torque accuracy of ±5%. The auto shut-off clutch extends battery + clutch life by immediately stopping rotation once selected torque setting is reached. Max 39" lbs. torque. **Features**: 1/4" hex quick connect chuck; 15-minute charging system; easily converts from straight to pistol form. **(USA)**

No. 619SC622 ..... **$199.00**
No. 619PR0225 2.4/3.6V Charger Only..... **$82.15**
No. 619PR225 Driver. No Charger..... **$37.20**
No. 619PR025 Battery Pack..... **$37.20**

Panasonic Cordless Screwdriver 2 Speed

Uses standard 1/4" Hex accessories. Six-position clutch. Torque 3.5-26 in/lbs. Self-locking speed control. One-hour charge. No load speed 200/400RPM. **Includes:** Battery pack, charger, two Phillips bits and one slotted bit.

No. 619SC503..... **$103.85** **No. 619AC903** Extra Battery **$25.95**

New!

Predator 3/8"12V Compact Cordless

Don't let the size fool you. The Predator cordless drill and driver kit has just as much torque as our current models. There are 21 separate torque settings plus a drill setting for maximum torque. Specs.: 15 min. charge, Clutch Torque: 174 In. Lbs., 3/8" keyless chuck, extra "Ironman Battery" included.

No. 619PR6100 ..... **$254.20**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Cordless Drill Kit

This kit contains different cordless tools so you can have the right tool for the job. **Includes:** (1) 1/2" hammerdrill/drill/driver; (1) reciprocating saw; (1) trim saw; (1) floodlight; (1) XR+™ PACK batteries; (1) Charger with tune-up mode. **Specs:** Hammerdrill/drill/driver: Voltage: 18V; No Load Speed: 0-650/0-1,850 rpm; Blows/Min.: 0-7, 150/ 0-20, 350 bpm; Max. Torque: 325 in./lbs.; Capacity: Steel - 1/2", Wood - 1-1/2", Concrete - 1/4"; Reciprocating Saw: Voltage: 18V; Strokes/Min.: 0 - 2,000 spm; Stroke Length: 1"; Ft./Min.: 34'; Trim Saw: Voltage: 18V; No Load Speed: 0 - 3,200 rpm; Arbor Size: 10mm; Blade Diameter: 5-3/8"; Max. Depth of cut @ 90°: 1-1/2"; Ft./Min.: 35'; Bevel Capacity: 50°; Flexible Floodlight: Voltage: 18V; Run Time: 3 hours; Bulb: Xenon; Lux: 325; 18V Battery: capacity: 2.4Amps; Charger: 7.2V - 18V. **(USA)**

No. 196PR400 ..... $1060.00

Hammerdrill & Reciprocating Saw Combo Kit

This Hammerdrill and Reciprocating Saw Combo kit has everything to get the job done. **Includes:** (1) 1/2" hammerdrill/drill/driver: (1) reciprocating saw; (2) XR+™ Pack Batteries; (1) Charger with Tune-Up™ mode. **Specs:** Hammerdrill/drill/driver: Voltage: 18V; No Load Speed: 0-650/0-1,850 rpm; Blows/Min.: 0-7, 150/ 0-20, 350 bpm; Max. torque: 325 in./lbs.; Capacity: Steel - 1/2", Wood - 1-1/2", Concrete - 1/4"; Reciprocating Saw: Voltage: 18V; Strokes/Min.: 0 - 2,000 spm; Stroke Length: 1"; Ft./Min.: 34'; 18V Battery: Capacity: 2.4Amps; Charger: 7.2V - 18V. **(USA)**

No. 196PR997 ..... $816.00

Hammerdrill & Drill Driver Kit

This heavy-duty driver kit is 3-tools-in-1: hammerdrilling, drilling, and screwdriver. Has an 18V high-performance motor with fan cooling for maximum power and durability. Designed with 5 steel-planet transmission and copper-plated switch provide job site durability. **Includes:** Charger, (2) XR+™ pack batteries, screwdriver bit, kit box. **Specs:** Voltage: 18V; No Load Speed: 0-650/ 0-1, 850 rpm; Blows/Min: 0-7, 150/ 0-20, 350 bpm; Max. Torque: 325 in./lbs.; Capacity: Steel - 1/2", Wood - 1-1/2"; Concrete - 1/4". ***One-Year Warranty.*** **(USA)**

No. 196PR992 ..... $510.00

Heavy-Duty Work Site Radio/Charger

This weather resistant AM/FM radio and battery charger includes a special 9.6V-18V charging port to charge your DeWalt tools battery packs. Listen while charging your batteries, up to 12 hours radio run time per charge. Designed with a high impact roll cage, steel speaker grills and flexible antenna. The 9.6V battery charger features: 1-hour battery charger; patented 3-stage charging system. Runs off AC and generator (Batteries not included) ***One-Year Warranty.*** **(USA)**

No. 196PR911 ..... $233.00

Right Angle Drill/Driver Kit

Designed with a multi grip rubber trigger for comfortable use in tight areas. Features variable speed and reversing. Has a durable, right-angle transmission with sealed ball bearings and cut-steel gears. **Includes:** Charger, Compact battery pack, and kit box. **Specs:** Voltage: 14.4V; No Load Speed: 0-400/ 0-1,200 rpm; Max. Torque: 210 in./lbs.; Capacity: Steel - 3/8" Wood - 1". (USA)

No. 196PR966 ..... $227.90

Adjustable Clutch Drill and Driver Kit

This adjustable clutch drill and driver kit is built with a high-performance motor with fan cooling delivers maximum power and durability. Designed with a 5 steel-planet transmission and copper/plated switch provide job site durability. **Includes:** Charger, (2) XR Pack™ batteries, screwdriver bit, kit box. **Specs:** Voltage: 14.4V; No Load Speed: 0-450/ 0-1, 450 rpm; Max. Torque: 334 in./lbs.; Capacity: Steel - 1/2", Wood - 1-1/4". **(USA)**

No. 196PR912 ..... $418.00

Heavy-Duty 6" Bench Grinder

This heavy-duty 6" bench grinder is designed with a powerful 5/8 HP induction motor for heavy-duty grinding operations. The rugged cast-iron base and motor housing provide durability and prolong life. The motor runs at 3,450 rpm for high speed material removal. Precision-machined aluminum tool rests allow the user to accurately position work. **Includes:** 36 and 60 grit wheels; eye shields; spark deflectors; tool rest and adjustable wrench. **Specs:** Amps 120V AC: 4.0; Horsepower: 5/8; No Load Speed: 3,450 rpm; Wheel Diameter: 6"; Spindle Diameter: 1/2"; Tool Length: 15"; Tool Weight: 28.5 lbs. **(USA)**

No. 196PR756 ..... $119.90

Rapid Load Bit Set - 26 pc

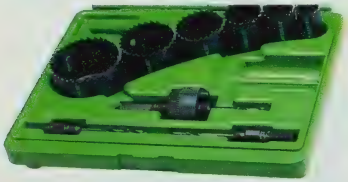
Drill Bits: 1/16", 1/8", 3/16", 1/4"; Rotary masonry drill bits: 5/32", 3/16"; Socket Adapters: 1/4", 3/8"; Magnetic drive guide; Magnetic nut drivers: 1/4", 5/16"; Screwdriver power bits: Phillips: #1, (2) #2, #3; Square Recess: #2; Slotted: #8; Screwdriver bit tips: Phillips: #1, (3) #2, #3; Square Recess: (2) #2; Slotted: #8; Rugged nylon pouch; Rapid Load Holder.

No. 196SC251 ..... $37.90

4/6 Tooth Hole Saw Kit - 7 pc

Consists of 7/8", 1", 1-1/8", 1-1/4", 1-1/2" sizes. Arbor No. 49-56-6950, Arbor Spacer No. 49- 67-0120, Arbor Adapter No. 49-56-6560 and sturdy plastic case. **(USA)**

No. 575PR071 ..... **$37.95**



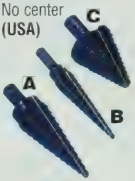
Electrician's Holesaw Kit

Contains: one each 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2", 1L Arbor-2L Arbor-one 1/4" Pilot Drill and Plastic Case.

No. 148SA016 ..... **$112.55**

Unibit® Step Drill Bits

Drill multiple size holes in thin material with a single bit faster and easier. Drill round holes in most metals, plastic and wood up to 1/8" thick. No center punching required on most sizes. **(USA)**



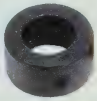
(13 Hole Size/Bit) 1/8" to 1/2"
A. No. 490FI016 ..... **$23.80**

(6 Hole Size/Bit) 3/16" to 1/2"
B. No. 490FI024 ..... **$23.80**

(9 Hole Size/Bit) 1/4" to 3/4"
C. No. 490FI020 ..... **$42.90**

Drill Guard Kit - 8 pc

Made from high-quality tool steel, simply place the collet on your drill bit and tighten set screw to your desired length. **Includes:** 1/8", 3/16", 1/4", 5/16", 3/8", 7/16" and 1/2". ***Lifetime Guarantee.*** **(USA)**



No. 324PR212 ..... **$5.70**

Screw Guide

Screw guide is a bit-and-screw holder, screw finder and extension, all in one! Includes a No. 2 Phillips bit and a No. 2 Square Drive bit. **(USA)**

No. 575AC3020 ..... **$8.65**

Drill-Out®

A drill and extractor are in one tool. (Drill up to grade 2 to 8, Class 5.6 to 10.9 and Stainless Steel bolts.) Designed to be used in a variable speed, reversible hand drill set for counter clockwise operation. Features self-centering tips. **(USA)**

Drill-Out Bolt Extractor - 4 pc
Removes from 1/4" (6mm) to 1/2" (12mm) bolts.
No. 136PR010 ..... **$64.00**

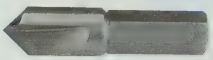
Drill-Out Kit - 7 pc (shown)
Kit contains seven extractors, from 1/8" (3mm) to 1/2" (12mm).
No. 136SC701 ..... **$89.65**

Micro Power Extractor Set - 4 pc
Extracts #5/6 (3mm), #8 (4mm), #10/12 (5mm) & 1/4" (6mm) bolts.
No. 136PR450 ..... **$54.45**

Individual Drill-Outs available...Call!

New!

X-Out™ Damaged Screw Remover



Place the tip of the X-Out™ onto the center of the damaged fastener. Apply firm pressure in the direction of the damaged screw or fastener. Maintain a firm pressure towards the screw or fastener. The screw will begin to turn out. Use a hand drill or insert X-Out™ into a standard 3/8" variable speed power drill, set for reverse mode. Made of high quality tool steel; 1/4" quick bit compatible. **(USA)**

Driver Size: P1 to P3, Set of 3 Removes No. 8 to 14 screws
No. 136SC019 ..... **$28.85**

Driver Size: P1 (Only) Removes No. 6 to 8 screws
No. 136SC001 ..... **$10.00**

Driver Size: P2 (Only) Removes No. 8 to 10 screws
No. 136SC002 ..... **$10.40**

Driver Size: P3 (Only) Removes No. 10 to 14 screws
No. 136SC003 ..... **$10.65**

Quick-Change Drill Set - 13 pc

Set of 1/4" Hex power bit high speed steel twist drills with 118° points are suitable for metal, plastic and wood. Convenient storage case. Drill Sizes: 1/16" through 1/4" by 64ths. **(USA)**

No. 875FI003 ..... **$36.95**

Drill Set - 21 pc

Bits feature a self-centering, 135° Split Point to reduce "walking" and for easy starting on hard materials. A unique flute form improves chip ejection, reduces drill retraction, and improves coolant flow to the drill point. Drill easily through tough alloys such as heat-treated materials, stainless steel and titanium. Sizes include: 1/16" to 3/8" by 64ths. **(USA)**

No. 575PR1086 ..... **$42.25**

Quick-Change Chuck

Convert your 1/4" or 3/8" screw gun or power drill into a keyless-chuck system. Simply insert this chuck into your existing chuck and tighten. **(USA)**

Converts 1/4", or larger std. adj. chuck
No. 155SC025 ..... **$10.95**

Converts 3/8", or larger std. adj. chuck
No. 155SC038 ..... **$10.95**

Offset Right Angle Power CP Screwdriver Head

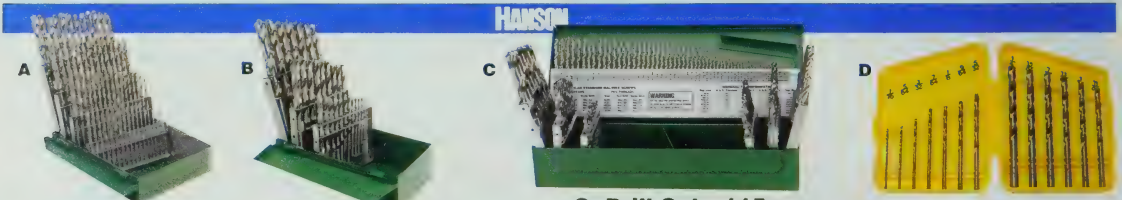
High-strength alloy housing. Adjustable 360° thumb flange. Max. torque 100 in/lbs. Driver system 1/4" hex. **(USA)**

No. 103SC891 ..... **$23.20**

Master Chuck™

Two sizes open 1/4" x 3/4". These tools allow you to open over 200 different chucks. Save wear on chucks by always having the proper key size. The squared center of the keys opens acetylene tanks. Treated steel with black oxide finish.

No. 740PR013 1/4" x 3/8" **$11.15**
No. 740PR012 1/2" x 3/4" **$12.75**



A. Drill Set - 60 pc

High-speed steel set contains wire gauge sizes 1 (.2280 dia.) thru 60 (.0400 dia.). Packed in hinged metal index case. **(USA)**

No. 426FI034 ..... **$94.90**

B. Drill Set - 29 pc

High-speed steel set contains jobber length bits in sizes 1/16" thru 1/2" by 64ths. Eight sizes over 3/8" have reduced 3/8" knurled shank. Packed in hinged metal index case. **(USA)**

No. 426FI2948 ..... **$118.50**

C. Drill Set - 115 pc

High-speed steel, straight shank set contains 29 fractional sizes 1/16" thru 1/2" by 64ths; 26 letter sizes A thru Z; 60 wire gauge sizes 1 thru 60. Packed in hinged metal index case. **(USA)**

No. 426FI042 ..... **$342.35**

25 - pc Metric Drill Set
Metric HSS Straight Shank set. **Contains:** 1mm through 13mm by .5mm. **(USA)**
No. 644PR025 ..... **$125.75**

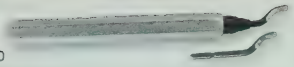
D. Drill Set - 13 pc

High-speed steel set with straight shanks contains sizes 1/16" thru 1/4". Packed in hinged plastic case. **(USA)**

No. 426FI014 ..... **$19.25**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Swivel Head Deburring Tool



Precision-made deburring tool with two interchangeable blades—mounted blade for deburring steel and aluminum, spare blade for deburring brass and cast iron. Change blades with push-button ease. 5" aluminum handle designed for safer, easier cutting action.

No. 400TE010 ..... **$9.00**

Replacement Blades

No. 400TE012 For deburring steel, aluminum, plastic, copper **$2.00**

No. 400TE014 For deburring brass, cast iron **$1.90**

Deburring Scrapers

Hollow, 6-3/8" OAL.

No. 846PR062 ..... **$6.80**

Solid, 6-3/8" OAL.

No. 846PR064 ..... **$9.95**

T-Handle Reamer

Hardened, ground-steel reamer removes burrs and enlarges small holes in soft metals, plastics and other materials. Capacity 1/8" to 1/2".

No. 400SA024 ..... **$12.35**

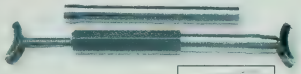
Reamer

Has many uses, such as removing burrs and enlarging small holes in mild metals, wood, plastics, etc. Plastic handle. Cap; 1/8"- 3/8".

No. 400SC010 ..... **$10.20**

Instant Belt Tightener!

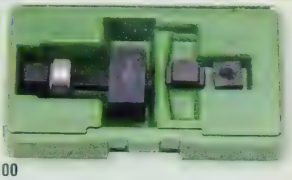
BeltJack



Spring loaded – simple, one-hand operation. Corrects belt tension & pulley alignment. USE FOR: Belt driven units, blower motors, all compressors, automotive belts, and transmissions. Increases transmission efficiency and belt life. Range: 5" to 11".

No. 554PR010 ..... **$21.95**

Greenlee® Electronic Connector Punches



Cut-out and mounting slots are punched in one operation. Drill one 7/16" pilot hole. Fast, accurate panel punching with no sawing or filing. Use either manual wrench or hydraulic punch driver methods. **(USA)**

No. 414PR229 Size 9 pin **$369.00**

No. 414PR231 Size 15 pin **$369.00**

No. 414PR232 Size 25 pin **$357.00**

No. 414PR234 Size 37 pin **$398.00**

No. 414PR238 Size 50 pin **$398.00**

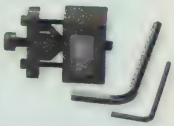
Knockout Punches With Ball Bearing Drive

Produce clean, true holes in seconds. Simply insert the punch in small drilled hole and a few quick turns with a hand wrench does the job. Cuts through up to 16-gauge metal. Complete 11 piece set for 1/2" to 1-1/4" conduit. **(USA)**

No. 414SA098 ..... **$115.00**

229PR009

Challenge Tool D-Subminiature Panel Punches



Mounting holes accurately located & center-punched. Burr free. Supply of adhesive-backed templates and all necessary screws & wrenches provided with kit. **(USA)**

No. 229PR009 9 pin, RS449 standards **$155.75**

Holesaw Sets

Professional - 7 pc

Includes one of each of following items. Assortment of holesaws: 7/8", 1", 1-1/8", 1-1/4", 1-1/2". Fit Holesaws: 9/16"-1-3/16", 1-1/4"-6".

No. 844PR265 ..... **$46.90**

Electrician's - 9 pc

Includes one of each of following items, except as noted. Assortment of holesaws: 7/8", 1-1/8", 1-3/8", 1 3/4", 2", 2 1/2". Fit Holesaws: 9/16"-1-3/16", 1-1/4"-6".

No. 844PR264 ..... **$69.65**

HANSON Tap & Die Sets

A. Tap & Die Set - 39 pc

High-carbon steel set with 1" solid round dies. **Contains one ea. plug tap and dies for 17 sizes:** 4-40 NC, 6-32NC, 8-32NC, 10-24NC, 10-32NF, 12-24NC, 1/4-20NC, 1/4-28NF, 5/16-18NC, 5/16-24NF, 3/8-16 NC, 3/8-24 NF, 7/16-14NC, 7/16-20NF, 1/2-13NC, 1/2-20NF, 1/8-27NPT, plus five threading tools. Case with removable tray.

No. 426FI028 ..... **$149.80**

B. Tap & Die Set - 41 pc

Metric high-carbon steel set with 5/8" and 1" hex dies. **Contains:** 17 sizes: 3mm thru 12mm. Plus seven threading tools.

No. 426FI030 ..... **$170.30**

C. Tap & Die Set - 54 pc

High-carbon steel set with 1" & 1-7/16" hex dies. **Contains one ea.:** plug tap and dies for 23 sizes 6 thru 3/4". Plus seven threading tools including adj tap handles and thread gauge. Packed in blow molded case.

No. 426FI940 ..... **$314.50**

Metric Tap & Die Set - 54 pc

Metric high-carbon steel set with 1" and 1-7/16" hex dies. **Contains one ea.:** plug tap and dies for 23 sizes 3mm thru 18mm. Plus seven threading tools including adj. tap handles and metric thread gauge. Packed in blow molded case.

No. 426FI294 *(Not shown)* **$338.45**

D. Tap & Drill - 13 pc

Six HSS wire gauge drill bits sizes 7 thru 35. Six plug taps sizes 6-32NC thru 1/4-20NC. T-Handle tap wrench.

No. 426FI038 ..... **$28.10**

Tap Wrench

Sliding T-handle, self-centering, tool-steel jaws and knurled chuck sleeve. Tap capacity: No. 0 to 1/4". Length: 2-3/4

No. 400WR012 *(Not shown)* **$9.45**

1000V Electrical Pliers & Cutters

SensoPlus® VDE 1000VAC Pliers and Cutters

These hot drop forged, high alloy steel pliers and cutters are hardened and tempered, with cutters featuring precision ground edges. The Ergonomic soft grip design handles reduce fatigue and are insulated for 1000VAC for your protection. Special safety-cushion impact protection features are incorporated into the bottom of the handles. *Meets VDE, EN60900. ASTM.* (Germany)

A. Snipe Nose Pliers
No. 217PL617 6-3/4" (170mm) OAL **$29.70**
No. 217PL907 8" (200mm) OAL **$30.50**

B. Snipe Curve Nose Pliers
No. 217PL070 8" (200mm) OAL **$32.00**

C. Combination Pliers
No. 217PL972 7" (180mm) OAL **$31.00**
No. 217PL220 8" (200mm) OAL **$31.70**

D. Side Cutter
No. 217PL756 6-1/4" (160mm) OAL **$45.10**
No. 217PL075 7" (180mm) OAL **$45.10**

E. Heavy Duty Side Cutters
No. 217PL165 6-1/2" (180mm) OAL..... **$51.70**
No. 217PL973 8" (200mm) OAL..... **$49.80**

F. Copper/Aluminum Cable Cutters
Cut cables up to 14mm (9/16") in diameter. Razor sharp edges cut cleanly through copper and aluminum cable with no "squeeze." Additional knife-like edges can also split insulation with ease. (*Not suitable for steel wire.*) (Germany)
No. 217SC470 ..... **$49.60**

SensoPlus® VDE Pliers and Cutters Kit - 8 pc

Kit includes: Side Cutter: 6"; Snipe Nose Plier: 6-3/4"; Wire Stripper: 6-1/2"; Phillips Screwdriver: #1, 2; Slotted Screwdriver: 3", 4", 5". (Germany)
No. 217SC607 ..... **$159.60**

1000V Electrical Tool Kit - 14 pc

Tools meet the latest codes for insulated/ protective hand tools. Pliers and screwdrivers are "VDE" approved for 1000V insulation protection. All have permanent guards to prevent the hand from slipping to a live area. **Includes:** electrician's plier-8", side cutters-7", long nose pliers-8", bent snipe nose-8", Phillips screwdrivers #0 x 2-3/8", #1 x 3-1/8", #2 x 4-3/16", #3 x 6-1/4", #4 x 7-3/4", slotted screwdrivers 3" x 7/64", 3-7/8" x 5/32", 5" x 7/32", 6" x 1/4", 6-3/4" x 5/16". VDE, IEC-900, ASTM F1505-94 Approved.
No. 217TT010 ..... **$249.95**

Electrician's Tool Kit -7 pcs

New!

This electrician's tool kit features SensoPlus® VDE pliers and screwdrivers in a soft roll bag. **Includes:** Pliers: Combination: 180mm / 7", Snipe Nose: 200mm / 8"; Side Cutters: 160mm / 6"; Screwdrivers: Phillips 1, 2; VDE 4 x 100mm, 6.5 x 150mm. (Germany)
No. 217PL390 ..... **$111.40**

SensoPlus®Insulated Screwdrivers

VDE-Screwdrivers has an extended dual-compound handle. This fatigue-free ergonomic handle is designed with a round spinning area, and precision machined black tips. Meets all criteria for EN 09000 and VDE. Tested to 10,000V AC for use around live line equipment up to 1000V AC. (Germany)

Phillips
No. 217SC206 PH 0, 9/64" x 2-3/8" **$5.15**
No. 217SC218 PH 1, 3/16" x 3-1/8" **$5.95**
No. 217SC221 PH 2, 7/32" x 4" **$7.20**

Pozidriv
No. 217SC318 PZD 0, 9/64" x 2-3/8" **$5.50**
No. 217SC431 PZD 1, 3/16" x 3-1/8".... **$6.25**
No. 217SC432 PZD 2, 7/32" x 4" **$7.90**

Slotted
No. 217SC125 7/32" x 5" **$6.25**
No. 217SC150 1/4" x 6"..... **$6.80**
No. 217SC175 5/16" x 7"..... **$9.40**
No. 217SC817 25/64" x 8" **$12.00**

SensoPlus™ 1000V Insulated Set - 7 pc

Includes: (4) Slotted: 2.5", 4", 5.5", 6.5"; (3) Phillips: #0, #1, #2. (Germany)
No. 217SC092..... **$51.50**

C.K. VDE - Safety Orange Driver Set - 8 pc

The VDE Set meets exacting standards of VDE 0680 and IEC 900 specifications. Features fatigue-free turning. Blades are made from chrome vanadium steel. Each is tested to a voltage of 10,000 V AC. **Includes:** 75 x 2.88mm slotted; 100 x 4mm slotted; 125 x 4.5mm slotted; 150 x 6.5mm slotted; Phillips #0 x 60mm; Phillips #1 x 80mm; Phillips 2 x 100mm; 1/8" x 5-1/2" OAL. 220-250V Main Testers. *Meets ASTM.* (Germany)
No. 217SC474 ..... **$31.00**

C.K. VDE Insulated Screwdriver Set - 6 pc

Contents: Slotted screws 7/64" x 3", 5/32" x 4", 11/64" x 5"; Phillips screws (size #1 x 3", size #2 x 4") and an electrical tester. *Meets ASTM Standards.*
No. 217SC741 ..... **$26.20**

Insulated Screwdriver Kit - 7 pc

Blades: Vanadium-steel. Insulation **injection molded** and permanently fastened to the handle. Screwdriver handles 1000V AC - 1500V DC. Kit contains: Slotted: 1/4" x 6", 3/16" x 5", 1/8" x 4", 1/8" x 3". Phillips: #0 x 2-1/2", #1 x 3", #2 x 4". (Germany)
No. 691SC553 ..... **$42.65**

Double Insulation Tools *Tested individually to 10,000V AC for safe use on 1,000V AC. IEC 900. (Germany)*

Cable Cutter
Designed for easy cutting of solid wire up to 11mm / .433". Has double insulation, red over yellow. 8" OAL.
No. 217PL739 ..... **$62.55**

Cable Cutter
Cuts copper and aluminum wire up to 20mm or 3/4" diam. With opening spring. Double insulation - red over yellow.
No. 217SC962 ..... **$83.70**

VDE Heavy Duty Cable Cutter
Compact one-handed cable cutter with a capacity of 14mm to cut cleanly and effortlessly. Has a single blade action.
No. 217SC470 ..... **$49.60**

VDE Wire Stripping Plier
Coil spring, brass adjustment screw and lock nut pliers have a capacity of 0.3mm to 0.5mm. Has an ergonomic grip design with anti-slip horns, and a patented shock absorbing buffer for improved impact protection. Meets VDE 0682/201, EN 60900, and ASTM-F certifications. (Germany)
No. 217PL970 ..... **$33.40**

Nut Drivers
Has a blade length of 5" and an overall length of 3/8" to 9".

No. 217SC334 5/32"	**$16.95**	**No. 217SC437** 3/8"	**$17.35**
No. 217SC333 3/16"	**$13.95**	**No. 217SC347** 7/16"	**$21.20**
No. 217SC434 1/4"	**$14.60**	**No. 217SC438** 1/2"	**$24.20**
No. 217SC436 5/16"	**$15.60**	**No. 217SC439** 9/16"	**$30.25**

T-Handle Hexagon Keys
Has handle and blade insulation molded to hexagon key. 8" OAL.
No. 217SC441 5/32" **$17.85**
No. 217SC412 3/16" **$19.00**
No. 217SC214 7/32" **$20.45**
No. 217SC244 5/16" **$21.65**

T-Handle with Square Drive
This T-Handle with Square Driver is made of chrome-vanadium steel, and is chrome plated. Has double insulation - red over yellow. (Germany)
No. 217SC460 3/8" **$50.20**
No. 217SC604 1/2" **$55.85**

Open-End Spanners
Your open-end, chrome-plated wrench is made of chrome-vanadium steel. Double insulation - red over yellow. Comes to in sizes 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, 15/16, 1".

No. 217SC380 3/8"	**$19.70**	**No. 217SC385** 11/16"	**$25.95**
No. 217SC381 7/16"	**$19.70**	**No. 217SC386** 3/4"	**$30.25**
No. 217SC382 1/2"	**$21.85**	**No. 217SC387** 7/8"	**$30.25**
No. 217SC383 9/16"	**$24.00**	**No. 217SC388** 15/16"	**$34.65**
No. 217SC384 5/8"	**$25.95**	**No. 217SC389** 1"	**$34.65**

Hacksaw
This quality saw blade is made of SUPER HSS BI-METAL and is double insulated for your safety (red over yellow). 300mm/12" blade, 490mm/19-1/2" in total length.
No. 217SC905 ..... **$79.40**

Dismantling Cable Knife
Your welded plate at blade end prevents damaging conductor insulation whilst slitting the sheathing. Length 7"(excl. cap); Blade 1-1/2" long.
No. 217SC700 ..... **$44.80**

Reversible Ratchet
Your ratchet has a security push button, socket holding/release action with double insulation– red over yellow. 1/2" sq. dr., 10-1/2" OAL. .
No. 217SC602 ..... **$153.35**

Extension
1/2" sq. dr. 125mm/5" Long. Tested to 10,000V AC for safe use on 1.000V AC. IEC 900. (Germany)
No. 217SC609 ..... **$54.00**

Hexagon Sockets 1/2" Drive
Your chrome-plated socket is made of chrome-vanadium steel, and is double insulation – red over yellow. Comes in sizes 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, 15/16, 1".

No. 217SC650 3/8"	**$18.95**	**No. 217SC656** 3/4"	**$19.40**
No. 217SC651 7/16"	**$18.95**	**No. 217SC655** 11/16"	**$19.40**
No. 217SC652 1/2"	**$18.95**	**No. 217SC657** 7/8"	**$21.40**
No. 217SC653 9/16"	**$19.20**	**No. 217SC658** 15/16"	**$21.60**
No. 217SC654 5/8"	**$19.20**	**No. 217SC659** 1"	**$22.35**

Klein® Insulated Tool Kit - 22 pc
Your comprehensive assortment of 22 insulated tools is housed in an extra-sturdy, three-pallet, yellow case with custom-fitted pockets. The case has a piano-hinged cover with a combo lock and two key-locked latches for extra security. Case dimensions: 18-7/8"L x 15-3/8"W x 8-1/4"D. **(USA)**

Tools contained in your kit: *Cable Cutter, High-Leverage; Crimping Tool; Knife, Lineman's Plastic-Handle Skinning w/o handle ring; Pliers, NE-Type Side-Cutting w/Cutting Knives; Pliers, Diagonal-Cutting w/Angled-Hand Cutting Knives; Pliers, Two HD, Long Nose, w/Side Cutters; Skinning Hole Pliers, HD Diagonal-Cutting, w/Tapered Nose; Pliers, Two Long Nose w/ Side Cutters; Pliers, Pump, 10 and 12"; Screwdrivers: Three Round-Shank, Cabinet Tip 3/16" x 4", 3/16" x 6", and 3/16" x 8"; Three HD Round Shank Keystone Tip 1/4" x 4", 5/16" x 6", and 3/8" x 10"; Three Round-Shank Phillips Tip No. 1, 2 and 3; Wire Stripper Cutter*

Model No.	Description	Qty.	Tool Kit Only 490TE527
490TE527	*Klein® Insulated*	1-3	$1145.55
	Tool Kit - 22 pc	4-9	$1059.00
		10+	$999.00

Xcelite Screwdrivers are vibratory polished (not chrome plated) and the tip is vapor blasted for better grip!

Xcelite

Phillips Type

TT No.	Point Size	Blade Dia.	Blade Lgth.	Size	Handle OAL	PRICE
272SC804	0	1/8"	2"	7/8 x 2-5/8"	4-5/8"	$2.60
272SC806	1	3/16"	3"	1 x 3-5/8"	6-5/8"	$3.60
272SC818	1	3/16"	6"	1 x 3-5/8"	9-5/8"	$4.60
272SC810	2	1/4"	4"	1-1/8 x 4-1/8"	8-1/8"	$4.60
272SC814	3	5/16"	6"	1-1/4 x 4-1/2"	10-1/2"	$6.60
272SC816	4	3/8"	8"	1-3/8 x 4-1/2"	12-1/2"	$9.95
POCKET CLIP STYLE - PHILLIPS						
272SC560	0	1/8"	2"	1/2 x 2-1/4"	4-1/4"	$3.10
STUBBY - PHILLIPS						
272SC792	1	3/16"	1-7/16"	1-3/8 x 2"	3-1/4"	$4.10
272SC794	2	1/4"	1-5/16"	1-3/8 x 2"	3-3/8"	$4.60
EXTRA LONG - PHILLIPS						
272SC808	1	3/16"	10"	1 x 3-5/8"	13-5/8"	$6.15
272SC812	2	1/4"	10"	1-1/8 x 4-1/8	14-1/8"	$6.60

Pocket Style
Slotted

TT No.	Blade Dia.	Blade Lgth.	Size	Handle OAL	PRICE
272SC706	3/32	2"	1/2" x 2-1/4"	4-1/4"	$2.05
272SC708	3/32	3"		5-1/4"	$2.25
272SC710	3/32	4"		6-1/4"	$2.40
272SC682	1/8"	2	1/2" x 2-1/4"	4-1/4"	$2.00
272SC688	1/8"	3"		5-1/4"	$2.40

Stubby

TT No.	Blade Diameter	Blade Length	OAL	PRICE
272SC746	3/16" Sq.	1-1/4"	3-1/4"	$3.35
272SC738	1/4" Sq.	1-1/4"	3-1/4"	$4.65
272SC760	5/16" Sq.	1-1/4"	3-1/4"	$3.75

Watch For Our *NEW* e-commerce internet site ...COMING January 2001!

Xcelite Screwdrivers Round Blade Regular

TT No.	Blade Dia.	Blade Lgth.	Handle Size	OAL	PRICE
272SC686	1/8"	2"	7/8" x 2-5/8"	4-5/8"	$2.45
272SC690	1/8"	4"		6-5/8"	$3.15
272SC692	1/8"	6"		8-5/8"	$3.70
272SC694	1/8"	8"		10-5/8"	$3.65
272SC684	1/8"	10"		12-5/8"	$4.10
272SC720	5/32"	3"	7/8" x 2-5/8"	5-5/8"	$3.10
272SC722	5/32"	4"		6-5/8"	$3.10
272SC724	5/32"	5"		7-5/8"	$3.45
272SC726	5/32"	8"		10-5/8"	$4.20
272SC698	3/16"	3"	1" x 3-5/8"	6-5/8"	$4.10
272SC700	3/16"	4"		7-5/8"	$4.55
272SC702	3/16"	6"		9-5/8"	$5.10
272SC704	3/16"	8"		11-5/8"	$5.30
272SC696	3/16"	10"		13-5/8"	$6.20
272SC676	1/4"	4"	1-1/8" x 4-1/8"	8-1/8"	$5.25
272SC678	1/4"	6"		10-1/8"	$5.95
272SC680	1/4"	8"		12-1/8"	$6.40
272SC672	1/4"	10"		14-1/8"	$6.55
272SC714	5/16"	4"	1-1/4" x 4-1/2"	8-1/2"	$6.25
272SC716	5/16"	6"		10-1/2"	$6.60
272SC718	5/16"	8"		12-1/2"	$7.30
272SC712	3/8"	8"	1-3/8" x 4-1/2"	12-1/2"	$8.70

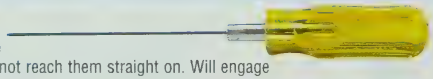
Screwdriver Kits

Round Blade Kit - 5 pc
Includes: 1/8" x 2", 5/32" x 4", 3/16" x 6", 1/4" x 4", 5/16" x 6" *(Shown Above).*
No. 272SC776 ..... **$20.90**

Square Blade Kit - 5 pc
Includes: 1/4" x 1-1/4"., 3/16" x 4", 1/4" x 4", 5/16" x 6", 3/8" x 8".
No. 272SC778 *(Not Shown)* **$33.90**

Phillips & Slotted Head Kit - 6 pc
Includes: #2, 1/4" x 4", 1/8" x 4", 3/16" x 6", 5/16" x 6", #1, 3/16" x 3", 1/4" x 4".
No. 272SC790 *(Not Shown)* **$29.10**

Ballpoint Hex Socket



Ideal for tightening and removing Allen-type socket thread screws in spots where you cannot reach them straight on. Will engage screw head from any angle. Slips easily into sockets and holds securely without reaming.

INCH SIZES (Amber Handles) Black oxide finish.

TT No.	Size	Lgth.	Blade Size	Handle OAL	PRICE
272SC466	.050"	4"	7/8 x 2-5/8"	6-5/8"	$7.00
272SC470	1/16"	4"	7/8 x 2-5/8"	6-5/8"	$6.90
272SC474	5/64"	4"	7/8 x 2-5/8"	6-5/8"	$7.30
272SC478	3/32"	4"	7/8 x 2-5/8"	7-1/8"	$7.30
272SC522	7/64"	4"	7/8 x 2-5/8"	7-1/8"	$7.35
272SC482	1/8"	4"	7/8 x 2-5/8"	7-1/8"	$7.30
272SC530	9/64"	4"	1-1/16 x 3-1/8"	7-1/8"	$7.35
272SC486	5/32"	4"	1-1/16 x 3-1/8"	7-1/8"	$7.30
272SC490	3/16"	4"	1-1/16 x 3-1/8"	8-1/8"	$7.30
272SC498	1/4"	4"	1-1/16 x 3-1/8"	8-1/8"	$7.95

Hex Socket

INCH SIZES (Amber Handles) Black Oxide Finish

TT No.	Size	Hex Length	Blade Size	Handle OAL	PRICE
272SC468	1/16"	4"	7/8 x 2-5/8"	6-5/8"	$4.10
272SC472	5/64"	4"	7/8 x 2-5/8"	6-5/8"	$4.10
272SC476	3/32"	4"	7/8 x 2-5/8"	7-1/8"	$4.10
272SC520	7/64"	4"	1-1/16 x 3-1/8"	7-1/8"	$4.10
272SC480	1/8"	4"	1-1/16 x 3-1/8"	7-1/8"	$4.10
272SC528	9/64"	4"	1-1/16 x 3-1/8"	7-1/8"	$4.10
272SC484	5/32"	6"	1 x 3-1/8"	9-1/8"	$4.10
272SC488	3/16"	6"	1 x 3-1/8"	10-1/8"	$5.00
272SC492	7/32"	6"	1-1/8 x 4-1/8"	10-1/8"	$5.65
272SC496	1/4"	6"	1-1/8 x 4-1/8"	10-1/8"	$5.65

Nutmaster™ Nutdriver - 7 pc

Long, hollow shank masters longer bolts without skinned knuckles. One-piece socket and shank with cushioned rubber grips. Color-coded handles.
Includes: 3/16", 1/4", 5/16", 11/32", 3/8", 7/16" & 1/2". *Lifetime Warranty.* **(USA)**
No. 462SC299 ..... **$42.75**

Mini-Driver Kit - Inch
Contains six jeweler's type slotted and Phillips blades. Sizes: 00 Phillips, .040", .055", .070", .080", 100" in pouch. **(USA)**
No. 272SC550 ..... **$13.20**

Super-Tru Tip - Phillips Type

TT No.	Point Size	Blade Dia.	Blade Lgth.	OAL	PRICE
272SC862	0	1/8"	2"	4-5/8"	$3.10
272SC864	1	3/16"	3"	6-5/8"	$4.60
272SC868	2	1/4"	4"	8-1/8"	$6.10
272SC866	1	3/16"	10"	13-5/8"	$8.00
272SC870	2	1/4"	10"	14-1/8"	$9.00

Torx Drivers

TT No.	Size	Blade Length	PRICE
272SC006	6	3"	$4.60
272SC008	8 XL	9-3/4"	$5.25
272SC871	8	3"	$4.60
272SC872	10	3"	$5.60
272SC874	15	3"	$4.60
272SC876	20	3"	$4.60
272SC878	25	3"	$4.60
272SC880	27	4-1/2"	$5.10
272SC882	30	4-1/2"	$5.10

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Phone: 1-800-832-4866
or 1-610-941-2400

Interchangeable Blades/Handles in Sets, Kits or Individual Components

Regular Handle
1-1/16" x 4-1/8".
No. 272SC164 ..... $3.95

Junior Handle
1" x 3-1/8".
No. 272SC186 ..... $3.85

Stubby Handle
1-1/16" x 2".
No. 272SC218 ..... $3.60

Tee Handle
1-5/8" x 3-3/8".
No. 272SC224 .. $5.10

Reversible Ratchet Handle
1-3/16" x 5-1/4"
No. 272SC184 ..... $24.90

Reversible "T" Ratchet Handle
3-1/2" x 2-1/2".
No. 272SC230 ..... $25.90

Power Bit Adapter
No. 272AC099 ..... $4.95

Tamper Proof Torx Blades
No. 272SC009 99-8XTDTP $5.25
No. 272SC010 99-10XTDTP .. $5.20
No. 272SC011 99-11XTDTP .. $4.95

Reamer
Working length 4". Size: 1/8" to 3/8".
No. 272SC222 ..... $9.10

Extensions
No. 272SC366 4" $4.65
No. 272SC364 7" $5.15

Nutdrivers
Regular and magnetic working length: 3-5/8" or 92.08 mm. Stubby working length: 1-3/8".

No. 272SC236 3/16" $3.60
No. 272SC258 7/32" $3.60
No. 272SC294 1/4" $3.80
No. 272SC346 1/4" Stubby $3.10
No. 272SC314 9/32" $3.85
No. 272SC166 5/16" $3.95
No. 272SC342 5/16" Stubby $3.10
No. 272SC172 11/32" $3.60
No. 272SC176 3/8" $3.60
No. 272SC344 3/8" Stubby $3.10
No. 272SC180 7/16" (4" OAL) $4.60
No. 272SC182 1/2" (4" OAL) $4.60
No. 272SC310 1/4" Magnetic $5.60
No. 272SC168 5/16" Magnetic $4.60
No. 272SC228 4 mm $3.95
No. 272SC226 4.5 mm $3.95
No. 272SC234 5 mm $3.95
No. 272SC232 5.5 mm $3.95
No. 272SC256 6 mm $3.90
No. 272SC292 7 mm $4.30
No. 272SC312 8 mm $3.95
No. 272SC320 9 mm $4.35
No. 272SC170 10 mm $4.60
No. 272SC174 11 mm $4.60

Bristol 6 - Flute Multiple Spline Screwdrivers
(Working Length: 4")

No. 272SC238 0.048" $3.45
No. 272SC240 0.060" $3.45
No. 272SC242 0.069" 4 Flute $3.45
No. 272SC244 0.072" $3.45
No. 272SC246 0.076" 4 Flute $3.45
No. 272SC248 0.096" $3.45
No. 272SC250 0.111" $3.45
No. 272SC254 0.183" $3.45

Allen Hex Socket Type Screwdrivers
(Working Length: 4")

No. 272SC188 .050" $3.50
No. 272SC192 1/16" $3.50
No. 272SC196 5/64" $3.50
No. 272SC200 3/32" $3.50
No. 272SC280 7/64" $3.50
No. 272SC204 1/8" $3.50
No. 272SC316 9/64" $3.50
No. 272SC208 5/32" $3.60
No. 272SC214 3/16" $3.60
No. 272SC260 1.27 mm $4.35
No. 272SC264 1.5 mm $4.35
No. 272SC268 2 mm $4.35
No. 272SC272 2.5 mm $4.35
No. 272SC276 3 mm $4.35
No. 272SC284 4 mm $4.35
No. 272SC288 5 mm $4.35

Ballpoint Allen Hex Socket Type Screwdrivers
(Working length: 4")

No. 272SC190 .050" $5.10
No. 272SC194 1/16" $5.10
No. 272SC198 5/64" $5.10
No. 272SC202 3/32" $5.10
No. 272SC282 7/64" $5.10
No. 272SC206 1/8" $5.10
No. 272SC318 9/64" $5.10
No. 272SC212 5/32" $5.10
No. 272SC216 3/16" $5.10
No. 272SC262 1.27 mm $5.55
No. 272SC266 1.5 mm $5.55
No. 272SC270 2 mm $5.55
No. 272SC274 2.5 mm $5.55
No. 272SC278 3 mm $5.55
No. 272SC286 4 mm $5.55
No. 272SC290 5 mm $5.55

Slotted Screwdrivers
(Working length: 4")

No. 272SC178 1/8" $3.60
No. 272SC296 3/16" $3.60
No. 272SC210 1/4" $3.60
No. 272SC220 5/16" $3.60

Phillips Screwdrivers
(Working length: 3-7/8")

No. 272SC298 #0 ..... $3.60
No. 272SC300 #1 ..... $3.60
No. 272SC302 #2 ..... $3.60

Pozidriv® Screwdrivers
(Working length 3-7/8")

No. 272SC304 #1 ..... $6.30
No. 272SC306 #2 ..... $6.30
No. 272SC308 #3 ..... $6.30

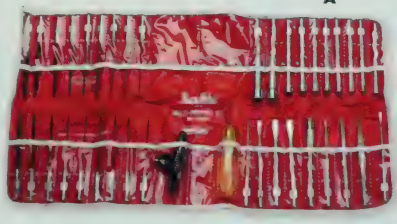
Torx Driver Blades
No. 272TO006 #6 ..... $4.30
No. 272TO008 #8 ..... $4.30
No. 272TO010 #10 ..... $4.30
No. 272TO015 #15 ..... $4.30
No. 272TO020 #20 ..... $4.30
No. 272TO025 #25 ..... $4.30
No. 272TO027 #27 ..... $4.30
No. 272TO030 #30 ..... $4.30
Torx Set: Includes blades and regular handles. #10, 15, 20, 25, 27, 30
No. 272TO007 ..... $29.80

A. Multi-Purpose Kit 99M - 39 pc

All most-needed Series 99 tools. **Contains**: Regular and Tee handles; nine regular and magnetic nutdrivers; nine allen hex, bristol multiple spline, slotted & Phillips screwdrivers; reamer; extension blade.

Canvas Roll-up Case (99MP)
No. 272SC326 ..... $159.90
Plastic Fold-up Case (99MPX)
No. 272SC325 ..... $159.90

A



B

B. Roll Kit 99-PR Set - 14 pc

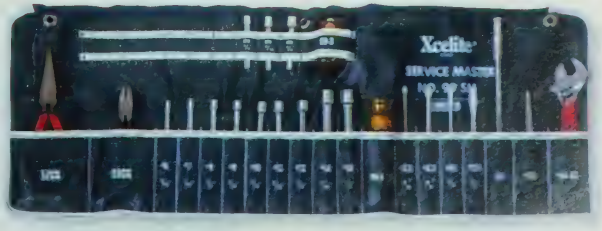
Includes: Regular handle; nine nutdrivers 3/16" to 1/2"; two slotted 3/16" and 1/4" and two Phillips #1 and #2 screwdriver blades.
No. 272SC328 ..... $59.90

C. Service Master Kit - 23 pc

Includes: Pliers: 6" long nose & 5" diagonal, cushion grip; 6" adjustable wrench; regular and stubby handles; nine regular and stubby nutdriver blades; Phillips and slotted screwdriver blades; reamer; and extension blades.

Canvas Roll-up Case (99SM)
No. 272SC356 ..... $139.95
Protective Fold-up Case (99SMX)
No. 272SC355 ..... $139.95

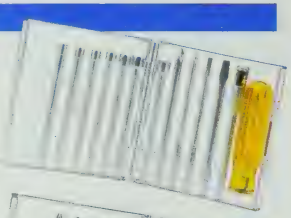
C



Xcelite

Interchangeable Blades/Handles in Sets, Kits or Individual Components

Nutdriver Sets



Screwdriver Nutdriver Set - 13 pc
Includes: Regular Handle: 1-1/16" x 4-1/8". Regular Nutdriver: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8". Slotted : 3/16", 1/4".Phillips Screwdrivers: #1, #2. Extension Blade: 4".
No. 272SC336 ..... **$47.95**

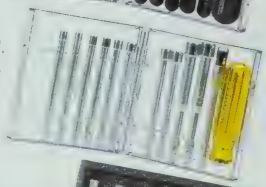
Screw/Nutdriver Set - 11 pc
Includes: #1, #2 Phillips & 1/8", 3/16", 1/4" screwdrivers. 3/16", 1/4", 5/16", 11/32", 3/8" nutdrivers, and torque amplifier handle. Color-Coded Handles.
No. 272SC650 (PS-130) **$32.95**

"Keep & Carry" Nutdriver - 10 pc
Contains: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16". Full hollow shafts.
No. 272SC428 (HS6-18) **$52.00**

Nutdriver Set - 11 pc
Includes: 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8". Torque amplifier handle. Color-Coded Handles.
No. 272SC646 (PS-120) **$31.45**

Nutdriver Set - 10 pc
The most frequently used metric sizes: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 10mm, 11mm, 13mm. Contains drivers with 31.35mm depth shaft hole.
No. 272SC100 (4-13-MM) **$53.90**

Nutdriver Set - 11 pc
Includes: 3mm, 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 10mm, Includes: Torque amplifier handle.
No. 272SC648 (PS-121mm) **$38.90**



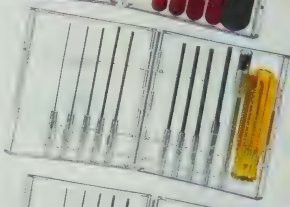
Nutdriver Set - 12 pc
Includes: Regular Handle: 1-1/16" x 4-1/8". Metric Nutdrivers: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm. Extension Blade: 4" OAL.
No. 272SC338 (99-PS-51mm) **$53.10**

"Tray Bien" Set 3/16" to 3/8" - 7 pc
Includes: 1-1/8" to 1-7/8" depth shaft holes. **(Solid Shaft)**
No. 272SC030 (127-TB) **$31.90**

"Tray Bien" Set 3/16" to 1/2" - 7 pc
Includes: 7" with hollow shaft.
No. 272SC038 (147-TB) **$40.40**

Socket Driver Sets

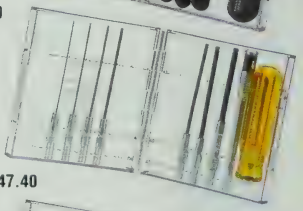
Hex Socket Driver Set - 9 pc
Contains: eight short Allen Blades .028", .035", .050", 1/16", 5/64", 3/32", 7/64", 1/8" and Torque Amplifier Handle. Red handles.
No. 272SC662 (PS 89) **$23.20**



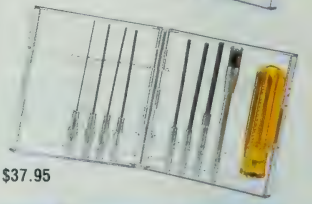
Allen Hex Socket Driver Set - 11 pc
Includes: Regular Handle: 1-1/16" x 4-1/8". Allen Hex Type Screwdrivers: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16". Extension Blade: 4".
No. 272SC330 (99-PS-40)..... **$38.90**

Ballpoint Allen Hex Socket Driver Set - 11 pc
Includes: Regular Handle: 1-1/16" x 4-1/8". Ballpoint Hex Socket Screwdrivers: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16". Extension Blade: 4".
No. 272SC332 (99-PS-40BP) .. **$56.20**

Hex Socket Driver Set - 9 pc
Includes: Short Metric Hex Sockets: .89mm, 1.27mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, and Torque Amplifier handle. Black Handles.
No. 272SC652 (PS 90 MM) **$25.90**

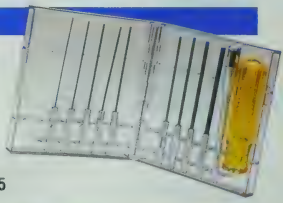


Ballpoint Hex Socket Driver Set - 9 pc
Includes: Regular Handle: 1-1/16" x 4-1/8" Metric Ballpoint Hex Socket Screwdrivers: 1.27mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, Extension Blade: 4".
No. 272SC368 (99PS-41MMBP) **$47.40**



Hex Socket Driver Set - 9 pc
Includes: Regular Handle: 1-1/16" x 4-1/8". Allen Hex Socket Type Screwdrivers: 1.27mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm. Ext. Blade: 4".
No. 272SC334 (99-PS-41mm) **$37.95**

Multiple Spline Sets



Bristol Multiple-Spline Screwdriver Set - 11 pc
Includes: Regular Handle: 1-1/16" x 4-1/8", Bristol Multiple Spline Type Socket Screwdrivers: .048", .060", .069", .072", .076", .096", .111", .145", .183". Extension Blade: 4".
No. 272SC340 (99-PS-60) **$38.25**

Screwdriver Sets

Screwdriver Set - 9 pc
Includes: short screwdrivers Slotted 3/32", 1/8", 5/32", 3/16", 1/4", Phillips #0, #1, #2 and Torque Amplifier handle. Color-coded handles.
No. 272SC660 (PS 88) **$24.90**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

A. 4-in-1 Stubby Quick Change Screwdriver
This handy tool includes #1 and #2 Phillips and 3/16" and1/4" slotted bits. 3" OAL. **(USA)**
No. 189SC881 ..... **$3.50**

B. Pocket Slender Screwdriver (4-in-1 and 2-in-1)
Five assorted 4-in-1 Pocket Slender Screwdrivers. 20 tips. **Contains:** #00/2-3, #0/3-4 Phillips/Slotted; #1/4-5, #2/8-10 Phillips/Slotted; #T6/T7, #T8/T10 Tee*StarTM; #T15/T20, T25/T30 Tee*StarTM; 3/32", 5/64" Hex and 7/64", 1/8" Hex 4-in-1 Pocket S/D, Pocket Clip and Plastic Pocket Protector. 6" OAL.
No. 324SC417 ..... **$16.30**

C. 4-In-1 Screwdriver
Double-end hex bits are held in each end of hex tube. Bits are reversible in tube, and tube is reversible in handle. Unique design permits quick bit change by merely reversing bit or tube. Comes with slotted 1/4", 3/16" and Phillips #1, & #2. Lifetime guarantee. **(USA)**
No. 354SC401 ..... **$6.25**

D. 4-in-1 Reversible Ratchet Screwdriver
Your comfort fit square-handle screwdriver includes: Double ended bits. 3/16" Slotted, #1 Phillips. 9/32" Slotted, #2 Phillips.
No. 189SC384 ..... **$11.25**

E. 6-in-1 Silent Ratchet Screwdriver
This screwdriver features an unbreakable ratchet mechanism. A powerful magnet holds bit and screw in place. Bits are stored in a convenient, ergonomic handle. Includes: #1 and #2 Phillips, 3/16" and 1/4" slotted, T15 and T20 Torx®. 7-1/2" OAL.
No. 189SC265 ..... **$9.35**

F. 8-in-1 Precision Computer Screwdriver
A non-magnetic shaft makes this screwdriver perfect for use on your sensitive computer equipment. Bit handle storage prevents tips from getting lost. Torx bits include: T3, T4, T5, T8, T10, T15. Phillips #0 and Phillips #0 x 2". **(USA)**
No. 189SC988 ..... **$12.95**

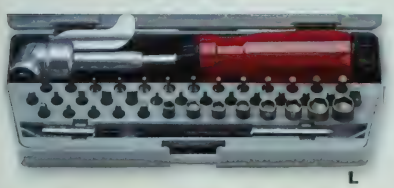
G. 10-in-1 Quick Change Screwdriver
Industrial quality with maximum versatility! This screwdriver includes four double-end bits: #1, #2 Phillips, 3/16" and 1/4" slotted, T15, T20 Torx and #1, #2 square recess. 1/4", 5/16" nutdriver. 9" OAL.
No. 189SC882 ..... **$6.80**

H. 10-In-1 Security Driver
Contains the following double ended bits: TT15, TT20; Ph #0-Slot 1/8"; Ph #1-Slot 3/16"; Ph #2-Slot 1/4"; 5/32 THex-Lin Head ALR 4.
No. 189SC593 ..... **$22.50**

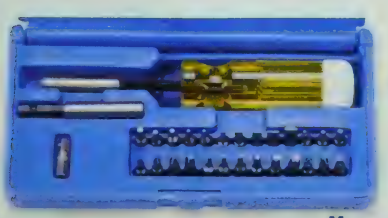
J. 12-In-1 Screwdriver
Contains the following double sided bits: Phillips, #1 #0; JCIS #1, #0; T3, T4, T5, T6; T7, T8, T10, T15. Handle length 4", OAL 9". Handle contains storage compartment with swivel top. **(USA)**
No. 189SC390 ..... **$19.50**

K. Metric Ratchet Screwdriver Set - 10 pc
Hi-Torque reversible ratchet with cushion handle for left hand, right hand, and neutral action. Powerful long-life magnet holds steel screws, bolts, washers, etc. for easy positioning and one-hand operations. Bit magazine housed in handle. Includes (1 ea.) POZIDRIV 0, 1, 2 driver; Slotted 3, 4.7, 6.3mm; and Hexagon 3, 4, 5mm. (Germany)
No. 217SC829 ..... **$17.10** C.K

SKEWDRIVER



L



M

L. Pro Roller Driver Kit - 44 pc
Kit features Pro Roller Driver Offset Screwdriver with removable handle for power screwdriver use; one 4-1/2" and one 1-1/2" Magnetic Ext.; Hex: 2mm, 2.5mm, 3mm, 5mm; Square Recess: R0, S1, S2, S3; Hex Head: 3/16" (5mm), 7/32" (5.5mm), 1/4" (6mm), 9/32" (7mm), 5/16" (8mm), 3/8" (10mm); Phillips: #0, 1, 2, 3; Slotted: 1/8", 3/16", 1/4", 5/16"; Torx :T8, T9, T10, T15, T20, T25, T27, T30; Allen : 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16"; plus case.
Limited Lifetime Warranty. (USA)
No. 722PR041 ..... **$69.95**

M. Do-It-All Kit - 29 pc
Kit includes: 1/4" magnetic driver with storage handle. Phillips: #0, #1, #2, #3; Slotted: 0-1, 3-4, 5-6, 8-10, 12; Allen: 5/64", 3/32", 7/64", 1/8", 9/64"; Square Recess: 0, 1, 2, 3; also Torx bits T10, T15, T20, T25, T30, T40; Pozidriv bits: 1, 2; Socket adapter: 1/4"; Bit holder 1/4" (for use with power tools)
No. 354SC0296 ..... **$23.40**

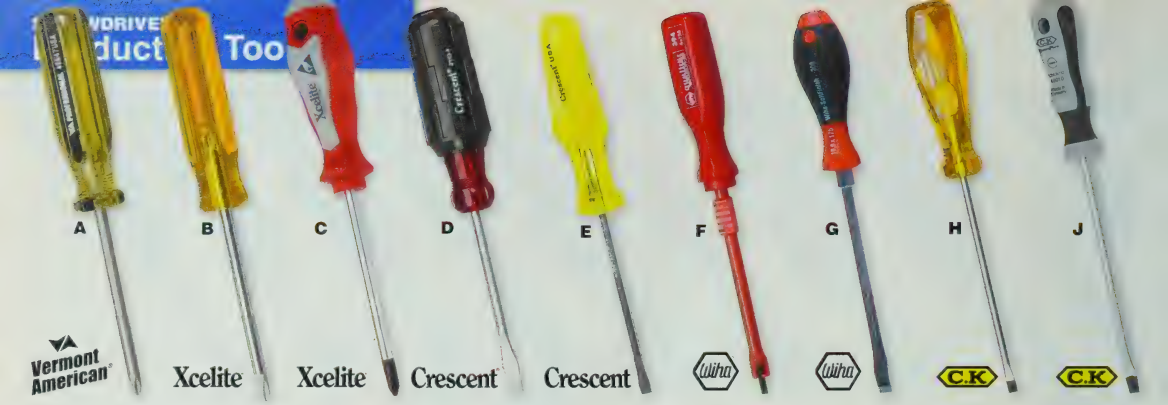
Xcelite

N

N. Pocket Roll Kit
Contains: Regular Handle: 1-1/8" x 4-1/8". Reversible Blades: #1 Phillips -3/16 Slotted. #2 Phillips-1/4" Slotted. #3 Phillips-5/16" Slotted. **(USA)**
No. 272SC386 ..... **$14.85**

P

P. Combination Reversible Screwdriver Kit
Reversible Blades: #1 Phillips-3/16" Slotted. #2 Phillips-1/4" Slotted. Regular Handle: 1-1/8" x 4-1/8". **(USA)**
No. 272SC382 .... **$14.85**



A. Vermont American® Service Set - 7 pc

1/8" x 3-1/2" pocket clip, 3/16" x 3" cabinet, 3/16" x 6" electrical,1/4" x 4" mechanic's, 5/16" x 6" heavy duty, #1 genuine Phillips - 3", #2 genuine Phillips - 4". **(USA)**

No. 684SC010 ..... **$21.15**

B. Xcelite® Screwdriver Set - 12 pc

This set contains six Slotted Drivers, six Phillips drivers, including pocket and stubby-type screwdrivers. Provides excellent coverage for your screwdriver needs. Reusable pouch. **(USA)**

No. 758SC120 ..... **$42.50**

C. Xcelite® Pro-Series Ergonomic Screwdriver Set - 7 pc

New!

All Pro-Series screwdrivers feature rubber coated dual material handles with an ESD safe hard plastic core to protect sensitive components. The handles are ergonomically designed, allowing sustained high torque with minimal slippage and muscle fatigue. Features chrome molybdenum vanadium steel shafts with black oxide tips. **Includes:** (5) Slotted: 1/8", 5/32", 3/16", 1/4", 5/16"; (2) Phillips: #1, #2. (Germany)

No. 272SC709 ..... **$33.65**

D. Crescent® 2000 Screwdrivers

Tapered, cushion-grip sleeve interlocked into handle for non-slip, comfortable grip. Tip graphic on handle for easy identification.

Crescent® Screwdriver Set - 6 pc

Contains: Phillips No. 1 & 2; Slotted 3/16" x 4", 5/16" x 6", 1/4" x 4", 3/16" x 4" Sq.

No. 272SC076 ..... **$26.10**

Crescent® Screwdriver Set - 10 pc

Contains: Phillips No. 1 & 2; No. 2 Stubby; Slotted 1/4" x 4", 5/16" x 6", 3/8" x 8", 1/4" x 4" Sq., 3/16" x 4", 3/16" x 6", 1/4" x 4" insulated.

No. 272SC078 ..... **$48.95**

E. Crescent® Pro-Driver Screwdriver Set - 10 pc

Features hi-polished chrome vanadium steel shafts for maximum corrosion resistance. Precision ground tip for reduced cam-out. The ergonomic handle allows high torque. **Includes**: Phillips®: #1 x 3", #2 x 4"; Mechanic's Round: 1/4 x 4", 1/4 x 6"; Electrician's Round: 3/16 x 3", 3/16 x 6"; Mechanic's Stubby: 1/4 x 1-1/4"; Phillips® Stubby: #2 x 1-1/4"; Phillips® Pocket Clip: #0 x 2". **(USA)**

No. 272SC102	**10 pc. Set**	**$28.15**
No. 272SC105	#1 x 3" Phillips®	**$2.40**
No. 272SC107	#2 x 4" Phillips®	**$3.45**
No. 272SC109	3/16 x 3" Electrician's Round	**$2.40**
No. 272SC113	3/16 x 6" Electrician's Round	**$2.65**
No. 272SC115	#2 x 1-1/4" Phillips® Stubby	**$3.60**
No. 272SC117	#0 x 2" Phillips® Pocket Clip	**$1.40**
No. 272SC119	1/8 x 2" Instrument Pocket Clip	**$1.40**

F. Wiha Slotted Screw Holding Drivers

This slotted screw holding screwdriver has a chrome-vanadium-molybdenum-steel, hardened black finish blade. Red handle is impact resistant. (Germany)

No. 881SC425	2.5" x 3/32"	**$12.90**	**No. 881SC450**	5.0" x 3/16"	**$20.70**
No. 881SC430	3.0" x 7/64"	**$13.50**	**No. 881SC460**	6.0" x 1/4"	**$23.50**
No. 881SC440	4.0" x 5/32"	**$17.40**			

G. Wiha Heavy-Duty Screwdriver Set - 8 pc

New!

This set includes: (5) Slotted: 5.5, 6.5, 7, 8, 10; (3) Phillips: #1, #2, #3. (Germany)

No. 881SC308 ..... **$80.00**

H. C.K. Ergonomic Screwdrivers

Comfortable handle fits your hand. Injection molded around blade and tang to prevent shattering. Blades made of super alloy steel. Matte chrome plated with black tips exceed standards in hardness, torque & bending loads. (Germany)

Phillips Screwdrivers				**Slotted Screwdrivers**			
No. 217SC481	No. 0	2-1/2" OAL	**$3.55**	**No. 217SC496**	5/32"	4" OAL	**$3.85**
No. 217SC482	No. 1	3-1/8" OAL	**$5.25**	**No. 217SC497**	3/16"	6" OAL	**$5.70**
No. 217SC122	No. 2	4" OAL	**$6.80**	**No. 217SC498**	1/8"	8" OAL	**$4.35**

J. C.K. SensoPlus® Screwdriver

Dual-Compound handle with integrated soft grip inserts. Blades made from hardened high alloy steels, with chromed black tips. (Germany)

Phillips

PH 0, 9/64" x 2-3/8"	
No. 217SC260	**$4.85**
PH 1, 3/16" x 3-1/8"	
No. 217SC280	**$5.85**
PH 2, 7/32" x 4"	
No. 217SC210	**$6.70**

Torx

TX 08, 1/8" x 2-3/4"	
No. 217SC087	**$6.25**
TX 09, 1/8" x 2-3/4"	
No. 217SC709	**$6.25**
TX 10, 1/8" x 3-1/8"	
No. 217SC710	**$6.75**
TX 15, 9/64" x 3-1/8"	
No. 217SC715	**$6.80**
TX 20, 5/32" x 3-1/2"	
No. 217SC720	**$7.20**

Slotted

No. 217SC104	5/32" x 3"	**$5.15**
No. 217SC105	7/32" x 4"	**$5.70**
No. 217SC106	1/4" x 5"	**$7.10**
No. 217SC165	1/4" x 6"	**$7.60**
No. 217SC108	5/16" x 7"	**$9.55**
No. 217SC200	25/64" x 8"	**$9.95**

Pozidriv

PZD 0, 9/64" x 2-3/8"	
No. 217SC060	**$5.20**
PZD 1, 3/16" x 3-1/8"	
No. 217SC180	**$9.55**
PZD 2, 7/32" x 4"	
No. 217SC100	**$7.30**

C.K. SensoPlus® Screwdriver Set - 7 pc

Includes: (4) Slotted: 3", 4", 5.5", 6.5"; (3) Phillips: #0, #1, #2. (Germany)

No. 217PL062 ..... **$48.60**

C.K. Slotted and Phillips Screwdriver Set - 5 pc

Includes: (3) Slotted: 4", 5.5", 6.5"; (2) Phillips: #1, #2. (Germany)

No. 217PL052 ..... **$37.80**

C.K. ESD Screwdriver Set - 6 pc

Includes: 75 x 3mm (3" x 1/8") slotted; 100 x 3mm (4" x 1/8") slotted; 125 x 5mm (5" x 3/16"); slotted; Phillips PH0, PH1, PH2. (Germany)

No. 217SC471 ..... **$22.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Q. Tamper Torx® Screwdriver

No. 354SC020 SizeT-7: Blade 3.5"; 5.25" OAL **$5.40**
No. 354SC022 SizeT-8: Blade 3.5"; 5.25" OAL **$5.40**
No. 354SC024 SizeT-9: Blade 3.5"; 5.25" OAL **$4.00**
No. 354SC026 SizeT-10: Blade 3.5"; 5.25" OAL..... **$3.40**
No. 354SC028 SizeT-15: Blade 3.5"; 7" OAL **$3.60**
No. 354SC030 SizeT-20: Blade 3.5"; 7" OAL **$3.75**
No. 354SC032 SizeT-25: Blade 4"; 7.5" OAL **$4.10**
No. 354SC034 SizeT-27: Blade 4"; 7.5" OAL **$4.40**
No. 354SC036 SizeT-30: Blade 4.5"; 8" OAL **$4.20**

R. Driver For Hand Turning

Magnetic 4" blade. 7" OAL.
No. 189SC401..... **$4.95**

S. Wiha Power Handle Bit Driver - 6 pc

This ergonomically-designed, WIHA powerhandle, with practical snap lock and rotatable cup, has a magnetic bitholder to hold bit and screw. Coated driver shaft is chrome-vanadium steel. Clear bit selector prevents bit loss. Bits: Slotted: 3/16", 1/4", 5/16"; Phillips: #1, 2, 3. (Germany)
No. 204SC006..... **$17.80**

T. Wiha Nutdriver Set -7 pc

New!

Includes: 3/16, 1/4, 5/16, 11/32, 3/8, 7/16, and 1/2".
No. 881SC193..... **$43.00**

Metric Nutdriver Set - 7 pc
Includes: 5.0, 5.5, 6, 7, 8, 10, and 13mm.
No. 881SC194..... **$42.00**

U. Magnetic Screwdrivers - 5 pc

Magnetic tip holds bit and screw securely. Store extra bits in plastic compartmentalized handle with 4 bits #4 & #6 Slotted and #1 & #2 Phillips. **(USA)**
No. 304SC012 4" blade size **$11.80**
No. 304SC014 7" blade size **$13.30**

Magnetic Security Driver
Tip storage in handle. No bits included. 11" OAL.
No. 189SC405..... **$6.25**

V. Dura-Driver™ Screwdriver with Telescoping Magnetic Pick-Up Tool

Crescent

This 6-in-1 screwdriver is compact and convenient with 6 interchangeable bits. Features a magnetic pick-up tool that extends 18" for hard-to-reach spots. **Includes**: Phillips: #1, 2; Slotted: 1/4", 3/16"; Square Recess: #1, 2. **(USA)**
No. 272SC823..... **$5.70**

W. Dura-Driver™ 7-in-1 ScrewDriver

Crescent

This 7-in-1 screwdriver features two double-ended bits, each with a slotted and a Phillips® blade, stored in a removable steel holding sleeve. Both ends of the holding sleeve are nutdrivers, plus an additional nutdriver built in the handle itself. **Includes**: Phillips: #1, 2; Slotted: 3/16", 9/32"; Nutdriver: 1/4", 5/16", and 7/16". **(USA)**
No. 272SC822..... **$5.10**

X. Magnetic Torx Screwdriver - 6 pc

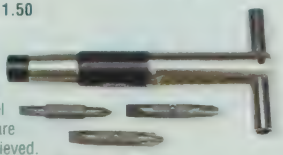
Magnetic tip holds bit securely. Extra bits store in handle compartment. Stainless steel shaft. Comes with five bits: T-10, T-15, T-20, T-25, T-30. Blade length 3-3/4", 8" OAL. **(USA)**
No. 490SC020..... **$13.30**

Dura-Driver Ratcheting Kit - 39 pc

This Dura-Driver Ratcheting Kit has a 3-position high torque ratchet with a hidden bit storage. The handle is designed with a no slip grip to stop slip-page for higher torque. The S2 industrial steel bits and chrome vanadium sockets with true fit hex design prevent rounding and stripping to nuts and bolts. **Includes**: (1) Dura-Driver Ratchet Screw-driver; (9) Fractional Sockets: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", and 1/2"; (9) Metric Sockets: 5, 6, 7, 8, 9, 10, 11, 12, 13mm; (18) Screwdriver Bits: Phillips: #1, 2, and 3; Slotted: 3/16", 5/32", 1/4"; Square Recess: #1, 2, 3; Torx: #10, 15, 20, 25, 30, 40; Hex: 5/32", 3/16", and 1/4"; (2) Socket Adapters: 1", 2". (Taiwan)
No. 272SC777..... **$25.10**
Dura-Driver Ratchet Driver (Only)
No. 272SC555..... **$11.50**

Crescent

6-in-1 "T" Handle Ratcheting Driver



This "T" Handle Driver Ratchet is made of chrome/nickel plated case hardened steel for longer life. The S2 tool steel bits are heat-treated, tempered and stress relieved. **Includes**: (3) Phillips: #1, 2, 3; (3) Slotted: 3/16", 9/32", 1/4". **(USA)**
No. 272SC801 ..... **$10.65**

4-In-1 Screwdriver

Four piece, set, standard handle, slide-in blades in a single shaft.
No. 272SC392..... **$10.40**

2-In-1 Stubby Screwdriver

Standard - 3/16" Phillips - #1
Three piece set: stubby handle, short slotted blade reverses from flat to Phillips in single shaft.
No. 272SC800..... **$6.30**

Driver 4-WayPocket Tool

A. Phillips-type Screwdriver
B. 3/16" Slotted Screwdriver
C. 7/16" Nutdriver
D. 1/4" Nutdriver
No. 272SC118 4-3/4" OAL .. **$9.80**

4-Way Offset Screwdriver

Drive slot type screws in tight spots. Each blade offset at a slightly different angle allowing for minimum movement to turn the screws
No. 400SC018 5" OAL **$7.80**

Xcelite

Color-Coded Handles!

Magnetic Nutdrivers

Alnico permanent magnet in socket holds fasteners firmly for easy, one-hand driving or for retrieving on removal.

TT No.	Hex Opening	Handle Color	Blade Length	Overall Length	PRICE
272SC150	1/4"	Red	3"	6-1/8"	$7.20
272SC016	5/16"	Amber	3"	6-1/8"	$7.20
272SC446	1/4"	Red	6"	10-1/8"	$9.20
272SC436	5/16"	Amber	6"	10 -1/8"	$9.20
272SC450	1/4"	Red	16-3/4"	20-7/8"	$21.00
272SC448	5/16"	Amber	16-3/4"	20-7/8"	$21.00

Nutdrivers (Fixed Handles)

The Xcelite Nutdrivers feature steel shafts and precision-machined, cold-drawn, case-hardened sockets with plated finish. Color-coded, firm-grip plastic handles for easy size identification. Inch Sizes. **(USA)**

++Drilled Shaft Regular

TT No.	Color Code	Hex Opening	Shaft Length	PRICE
272SC116	Black	3/16"	3"	$4.10
272SC128	Brown	7/32"	3"	$4.10
272SC144	Red	1/4"	3"	$4.10
272SC154	Orange	9/32"	3"	$4.10
272SC014	Amber	5/16"	3"	$4.10
272SC020	Green	11/32"	3"	$4.10
272SC024	Blue	3/8"	3"	$4.10
272SC036	Brown	7/16"	2-7/8"	$5.10

Full HollowShaft Regular

TT No.	Color Code	Hex Opening	Shaft Length	PRICE
272SC420	Black	3/16"	3"	$4.60
272SC422	Brown	7/32"	3"	$4.60
272SC424	Red	1/4	3"	$4.60
272SC426	Orange	9/32"	3"	$4.60
272SC408	Amber	5/16"	3"	$4.60
272SC410	Green	11/32"	3"	$5.50
272SC412	Blue	3/8"	3"	$5.50
272SC414	Brown	7/16"	3"	$6.10
272SC416	Red	1/2"	3"	$6.10
272SC418	Orange	9/16"	3"	$6.10

Nutdriver Pouch Sets - 7 pc

Plastic Pouch Set Contains: seven drivers, with 1-1/8 to 1-7/8" deep shaft holes. 3/16" to 1/2". **(USA)**
No. 272SC040 ..... **$34.95**

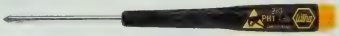
Plastic Pouch Set Contains: seven drivers, 6" to 7" with full hollow shaft. From 3/16" to 1/2". **(USA)**
No. 272SC052 ..... **$36.10**

Miniature Sets

Blade high alloy chrome-vanadium-molybdenum-steel, hardened, chrome plated, tip Wiha Chromtop. Handle manufactured from impact resistant, ESD safe material. (Germany)

Slotted Screwdrivers

No. 881SC101 1/16", OAL 4.72" **$5.10**
No. 881SC102 5/64", OAL 4.72"..... **$4.40**
No. 881SC104 3/32", OAL 5.71"..... **$4.40**
No. 881SC107 9/64", OAL 6.69"..... **$4.80**



Phillips Screwdriver

No. 881SC109 Blade 00, OAL 4.7"..... **$5.00**
No. 881SC111 Blade 0, OAL 5.7"..... **$4.70**
No. 881SC112 Blade 1, OAL 6.7"..... **$4.80**

Slotted & Phillips ESD Precision Screwdriver Set - 7 pc

Includes: Slotted: 1.5, 2.0, 2.5, 3.5mm; Phillips: 00, 0, 1.
No. 881SC113 ..... **$27.00**

Torx Screwdrivers

T3 thru T8= 4.7" OAL; T9= 5.7"

No. 881SC119 T3 ..... **$6.50**
No. 881SC121 T4 ..... **$6.50**
No. 881SC122 T5 ..... **$6.50**
No. 881SC123 T6 ..... **$6.50**
No. 881SC125 T7 ..... **$6.50**
No. 881SC126 T8 ..... **$6.60**
No. 881SC124 T9 ..... **$6.50**

Metric Nut Driver

6.1" OAL.

No. 881SC114 2.5mm **$5.90**
No. 881SC116 3.0mm **$6.20**
No. 881SC117 3.5mm **$6.40**
No. 881SC118 4.0mm **$6.60**

Nut Driver Inch Set - 9 pc

Precision blade with ESD-safe conductive handle.
Includes: 3/32", 5/32", 7/64", 3/16", 1/8", 7/32", 9/64", and 1/4".
No. 881SC988..... **$48.70**

Metric Precision Nutdriver Set - 9 pc

Includes: 2.0, 2.5, 3.0, 3.2, 3.5, 4.0, 4.5, 5.0 and 5.5mm. Adjustable "UTG, ESD-safe conductive Handle" allows variable blade lengths from: .6" to 3.75" (15mm to 90mm). (Germany)
No. 204SC998 .. **$59.00**

Reversible Metric Set - 15 pc

Includes: Adjustable Precision ESD Handle: Slotted: 1.5, 2.0, 2.5, 3.0, 3.5, 4.0;Phillips: #0, #00, #000, #1; Ball & Straight Hex: 1.3mm, 1.5mm; Straight Hex: 2.0mm, 2.5mm, 3.0mm; Ball End Hex: 2.0mm, 2.5mm, 3.0mm: Precision Proturn Chip Lifter.
No. 204SC992 .... **$76.00**

2-in-1 Reversible Blade Sets

Slotted/Phillips/Torx® Reversible - 9 pc
Slotted blades: 1.5mm, 2.0mm, 2.5mm, 3.0mm, 3.5mm, 4.0mm; Phillips blades: 000, 00, 0, 1; Torx: T6, T7, T8, T9, T10, T15.
No. 204SC997..... **$53.40**

Nutdriver Blade Set Metric - 9 pc
Hex blades: 2.0, 2.5, 3.0, 3.2, 3.5, 4.0, 4.5, 5.0, 5.5mm.
No. 204SC998..... **$59.00**

Torx® Reversible - 5 pc
Torx® blades: T6, T7, T8, T9, T10, T15, T20.
No. 204SC995..... **$23.90**

Slotted/Phillips Reversible Blade Set - 5 pc
Slotted blades: 1.5mm, 2.0mm, 3.0mm, 3.5mm; Phillips blades: 000, 00, 0, 1. *(Shown)*
No. 204SC996..... **$32.00**

Micro Bit Set - 40 pc

Includes: ESD-safe, bit-holding handle, 100mm long bit extension, 4mm hex shank, Slotted: 0.8,1.2, 1.5, 2.0, 3.0, 3.5, 4.0mm; Phillips: #000, #00, #0, #1; Torx: T3, T4, T5, T6, T7, T8, T9, T10, T15; Hex Metric: 0.71, 0.89, 1.27, 1.5, 2.0, 2.5, 3.0, 4.0mm; Hex Inch: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32".
No. 881SC996 ..... **$90.00**

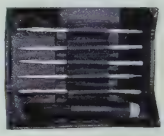
Interchangeable Micro Bit Set - 27 pc

Complete with slotted, Phillips, Hex inch and Torx® Precision interchangeable bits in a reusable case, set with ESD-safe precision handle. **Includes:** Slotted: 1.5, 2.0, 3.0, 4.0mm; Phillips: 000, 00, 0, 1; Torx: T3, T4, T5, T6, T7, T8, T9, T10, T15; Hex Inch: .050, 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32"; 105mm bit extension. (Germany)
No. 881SC992 ..... **$50.00**

Interchangeable Metric Bit Set - 27 pc

Slotted: 1.5, 2.0, 3.0, 4.0mm; Phillips: 000, 00, 0, 1; Torx: T3, T4, T5, T6, T7, T8, T9, T10, T15; Hex Metric: 0.7, 0.9, 1.3, 1.5, 2.0, 2.5, 3.0, 4.0mm; 105mm bit extension. ESD-safe precision handle. (Germany)
No. 881SC994 ..... **$50.00**

Reversible Blade Screwdriver Set - 6 pc



Unique, finger-tip-control handle with double ended, snap-in, hardened blades to service the metric & micro screws on imported devices. All sets contain ESD-safe handle and double ended blades in a convenient vinyl, roll-up pouch.
Includes: Slotted blades: 1.5 & 3, 2.0 & 3.5, 2.5 & 4.0mm. Phillips blades: 000 & 00, 0 & 1mm. 5" OAL.
No. 204SC991 ..... **$44.00**

ESD Safe Conductive Handle

High quality plastic, impact resistant, cadmium free. Surface resistant 10^6 to $10^9\Omega$/sq. Safe for working on ESD sensitive parts and assemblies. Collet lock holds blade securely in place. 5.3" OAL.
No. 881AC820 ..... **$5.40**

Demagnetizer

Demagnetize tools and small parts instantly.
204PR010..... **$8.90**

Slotted Screwdriver

204SC015 1/16" x 4.72" OAL..... **$4.70**
881SC012 3/64" x 4.72" OAL..... **$5.10**
204SC025 3/32" x 5.71" OAL..... **$4.00**
204SC260 5/64" x 5.71" OAL..... **$4.30**
204SC035 9/64" x 6.69" OAL..... **$4.40**
881SC030 1/8" x 5.71" OAL..... **$3.90**
204SC603 1/8" x 6.69" OAL..... **$4.20**
881SC642 5/32" x 10.24" OAL..... **$4.70**

Phillips Screwdriver, with Precision Handle

No. 204SC010 00 4.7" OAL **$4.90**
No. 204SC105 0 5.7" OAL **$4.30**
No. 881SC108 0 6.7" OAL **$4.50**
No. 204SC110 1 6.7" OAL **$4.80**

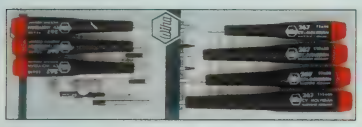
Metric Ballpoint, Hex Driver

Angle entry up to 25°.

No. 881SC413 1.3mm x 4.72" OAL **$4.90**
No. 881SC315 1.55" x 5.71" OAL **$4.10**

TORX® Screwdriver

No. 881SC706 T6 4.7" OAL **$5.90**
No. 881SC708 T8 4.7" OAL **$5.90**
No. 881SC710 T10 4.7" OAL..... **$6.20**



Metric Torx Set - 7 pc

Contains one each Precision Torx: T5 x 40mm; T6 x 40mm; T7 x 40mm; T8 x 40mm; T9 x 50mm; T10 x 50mm; T15 x 60mm.

No. 881SC792 ..... **$42.10**

Inch Ballpoint, Hex Driver

Angle entry up to 25°.

No. 881SC416 1/16", OAL 5.71" **$4.70**
No. 204SC419 5/64", OAL 5.71" **$4.70**
No. 204SC423 3/32", OAL 5.71" **$4.70**
No. 204SC427 7/64", OAL 6.69" **$4.70**
No. 881SC436 9/64", OAL 6.69" **$5.00**

Wiha Miniature Driver Kits

Torx Set - 6 pc *(Shown)*
T6, T7, T8, T9, T10, T15
No. 204SC208 ..... **$36.20**

Electronic Set - 7 pc *(Not Shown)*
Phillips #00, #0, #1. Slotted 1/16", 5/64", 3/32", 1/8".
No. 204SC202..... **$30.00**

Precision Adjustable Handle

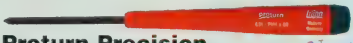
Adjustable handle with rotating control cap.
Allows adjustable blade length from 15 to 95mm, collet lock allows for quick and easy adjustment, and holds blade securely in place. Accepts all SYSTEM 4 blades.
204SC901 (Handle only) **$5.10**

Technicians Precision Blade Set -21 pc *New!*

This set contains 20 precision tips stored in a steel storage box. Blades are made from CVM special tool steel, with hardened satin chrome grip tips. **Includes:** Slotted: 2,3,4mm; Phillips: #00,0,1; Torx: T3, T4, T5, T6, T7, T8, T9, T10, T15, T20; (1) ESD Safe Collet Lock Handle. (Germany)
No. 881SC094..... **$70.00**

Master Technicians Precision Set - 27 pc

This set contains 26 tips made from CVM special tool steel. Exact fit tips are hardened and corrosion protected. **Includes:** Slotted: 2, 3, 4mm; Phillips: #00,0,1; Standard Hex: .028", 0.35"; Ball Hex: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32; Torx: T3, T4, T5, T6, T7, T8, T9, T10, T15; (1) ESD safe collet lock handle (1) proturn chip lifter. (Germany)
No. 881SC081 ..... **$80.00**



Proturn Precision Slotted/Phillips Set - 6 pc *New!*

Constructed with molded on precision handles, with rotation cap and black finish blades. Hardened CVM tool steel. Includes: (3) Slotted: 1.5, 2.5, 3.5; (3) Phillips: #00, 0, 1. (Germany)
No. 881SC190 ..... **$17.00**

Precision Handle Hex Driver Inch - 8 pc

Includes: .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8mm.
No. 204SC210.. **$33.20**

Hex Driver Set Metric - 7 pc

Includes: .07, 0.9, 1.3, 1.5, 2.0, 2.5, 3.0mm.
No. 204SC212.. **$29.70**

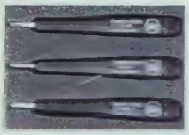
Nutdriver Inch Set - 8 pc

Contains one each: precision nutdriver, 60mm OAL: 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4". (Germany)
No. 881SC591 .. **$46.90**

Nutdriver Metric Set - 8 pc

Blade chrome-vanadium-steel. **Includes:** 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0mm, 2.4" OAL.
No. 204SC206 .. **$47.30**

Precision Ceramic Set - 3 pc



This set consists of two slotted screwdrivers and one Phillips screwdriver. Blades are made of special ceramic. Handles are made of antistatic, cadmium-free plastic. **Specs:** Slotted: 0.9mm, 2.6mm and Phillips #0. 3.72" OAL. (Germany)
No. 881SC090..... **$47.00**

Precision Ceramic Screwdrivers
No. 881SC009 Slotted 0.9mm **$15.70**
No. 881SC013 Slotted 1.3mm **$15.70**
No. 881SC018 Slotted 1.8mm **$15.70**
No. 881SC026 Slotted 2.6mm **$15.70**
No. 881SC100 Phillips #0 ..... **$15.70**

XONIC Ceramic Trimmer Set - 5 pc

This 100% non-magnetic, and non-static trimming tool set is designed for special electronic components that require special trimming tools. The ceramic tips are 100% rustproof and are extremely low thermal conductivity. Anti-stick surface to prevent solder, soft or silver, to adhere to surfaces. Contamination free blades make them suitable for clean-rooms. Total heat resistance of blades up to 1.000 C°. Unequaled resistance to wear. 10 x better than metal, 100 x better than plastic. **Includes:** (4) Slotted: 0.9 x 15mm, 1.3 x 15mm, 1.8 x 15mm, 2.6 x 15mm; (1) Phillips: 0 x 15mm. (Germany)
No. 217SC457 ..... **$97.55**

ESD Screwdriver Set - 3 pc

Includes: (2) Slotted: 1.8 x 60, 3.0 x 100mm; (1) Phillips: 0 x 60mm.
No. 217SC4884 ..... **$16.80**

ESD Torx Screwdriver Set - 6 pc

Includes: T4 x 50, T6 x 50, T7 x 50, T8 x 60, T9 x 60, T15 x 80mm.
No. 217SC877 ..... **$38.45**

Static Dissipative Superslim Screwdriver - 7 pc

Precision screwdrivers for slotted screws: 1/8 x 60mm (5/64" x 2 3/8"); 2.5 x 60mm (3/32" x 2 3/8"); 3.0 x 100mm (1/8" x 4"), 3.0 x 150mm (1/8" x 6"); 4.0 x 150mm (5/32" x 6"); for rec. head screws, Phillips size 0, blade length 60mm (2-3/8"), size 1 blade length 80mm (3-1/8"). (Germany)
No. 217SC870..... **$33.80**

Precislim Metric - 9 pc

Lightweight, impact-resistant, cellulose-acetate handles. Ideally shaped for electronics and micro-engineering. Chrome vanadium blades: chrome plated w/black burnished tips. **Includes** Slotted: .059 x 2.16mm, .077 x 1.96mm, .077 x 2.95mm, .100 x 2.95mm, .100 x 3.93mm, .118 x 2.95mm, .118 x 3.93mm; two Phillips: .080 x 1.96mm, and .118 x 2.95mm. (Switzerland)
No. 464SC009 ..... **$43.25**

Xcelite® Precision Screwdrivers - 6 pc

These ESD safe Xcelite precision electronic screwdriver sets are designed to maximize efficiency and production. The fast turning swivel caps w/cavity provide optimum control for precise centering. Chrome-molybdenum vanadium steel blades, and black oxide tips provide superior strength. (Germany)

Slotted/Phillips® Screwdriver Set - 6 pc;
Sizes: Slotted 1.5mm x 60mm, 2.0mm x 60mm, 2.5mm x 60mm, 3.0mm x 60mm; Phillips #0, #00
No. 272SC601 ..... **$20.95**

Torx® Set - 6 pc;
Sizes: #5, #6, #7, #8, #10, #15
No. 272SC604 ..... **$24.90**

Acu-Min®

Precision Set - 100 pc

The most complete miniature tool set presently available.

Contains thirty-three solid-locking, chuck-type, knurled & plated steel handles, fully assembled with 33 interchangeable tool blades. 33 extra tool blades & one extension. **Contains:** six slotted screwdriver handles, fully assembled with six blades & six extra blade sizes 0.025" to 0.100"; three cross recess driver handles with fully assembled driver blades, and three extra blades sizes 0.080"/2.0 mm/ #00 to 0.125"/3.2 mm/#1; six hex driver handles, fully assembled with six blades and six extra blade sizes 0.028" to 0.093"; five socket wrench/nut driver handles, fully assembled with five socket wrench/nut driver blades and five extra blade sizes 5/64" to 5/32"; Torx® sizes: T-3, T-4, T-5, T-6, T-8 and five extra blade sizes 0.033"-4 to 0.069-4"; one 3" ext. with chuck; and one 2" x 11-1/2" x 6-1/2" solid wood box. **(USA)**

No. 580SC299 ..... **$214.95**

Interchangeable Tool Tips!

Super Deluxe Tool Set - 82 pc

Contains nineteen knurled, and eight ball end, steel-plated chuck-type handles with Swivltops™. One extension (approx. 3").

Contains two each of the following:
Screwdriver Blades: 0.025", 0.040", 0.055", 0.070", 0.080" & 0.100"; Phillips Blades: No. 0 & 1; Hex Driver Blades: 0.028", 0.035", 0.050", 0.062", 0.078", & 0.093"; Socket Wrench Tips: 5/64", 3/32", 7/64", 1/8" & 5/32"; Offset Open End Wrench Tips: 5/64", 3/32", 7/64", 1/8", 5/32", 3/16", 1/4" and 5/16".

No. 580SC106 ..... **$128.95**

New!

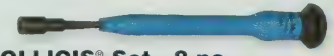
Dual Handle Miniature Tool Set - 30 pc

Includes: (1) Acu-Min Steel Handle; (1) Pollicis handle; (1) ball-end handle; (1) 3" extension; (4) Slotted: .055", .070", .080", .100"; (2) Phillips: #0, 1; (1) JIS-typeS: #00; (6) Hex: .028", .035", .050", .062", .078", .093"; (6) Torx: T-5, 6, 8, 10 and TP-8, 10; (3) Sockets: 7/64", 1/8", 5/32"; (4) Open End Wrenches: 7/64", 1/8", 5/32", 3/16"; (1) Awl. **(USA)**

No. 580SC024 ..... **$57.50**

POLLICIS

ACU-Min Extended Blade POLLICIS® Set - 8 pc



Torx® Driver Set - 9 pc
Sizes: T-3, 4, 5, 6, 8, 10 and TP-8 and TP-10.

No. 580SC380..... **$36.50**

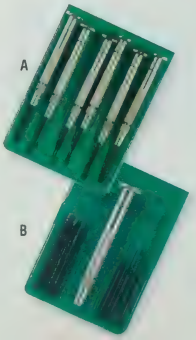
Screwdriver Sets

Six Swivltop™ handles and one each interchangeable blades, sizes: 0.025", 0.040", 0.055", 0.070", 0.080", & 0.100" blades. **(USA)**

A. No. 580SC084 ..... **$16.95**

One Swivltop™ handle and one each interchangeable blades, sizes: 0.025", 0.040", 0.055", 0.070", 0.080" & 0.100". **(USA)**

B. No. 580SC082..... **$8.25**



Offset Open End Wrench Sets

16 pc set: Eight Ball-end Handles and one each interchangeable Offset Open Wrenches, sizes: 5/64", 3/32", 7/64", 1/8", 5/32", 3/16" 1/4" and 5/16". **(USA)**

C. No. 580WR038 ..... **$23.25**

Socket/Nut Driver Sets

10 pc set: Five Swivltop™ handles and one each interchangeable Socket Wrenches, sizes: 5/64", 3/32", 7/64", 1/8" & 5/32". **(USA)**

D. No. 580WR036 ..... **$23.25**

J.I.S./Phillips Driver Set - 8 pc

Contains four handles, fully assembled with four interchangeable tool ends. Blade sizes: .055"/#000, 0.080"/#00; 0.100"/#0, 0.125"/ #1 Phillips-Type. **(USA)**

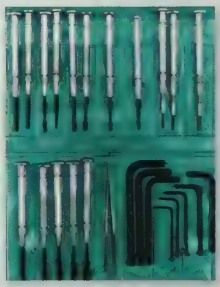
E. No. 580SC201 ..... **$16.95**

Miniature Tool Set - 30 pc

Includes two handles, 27 interchangeable tool ends made of hardened, tempered, black-finished alloy steel. **Contents:** one chuck-type handle with Swivltop™, one chuck-type handle with ball-end; four slotted screwdriver blades: 0.055", 0.070", 0.080", 0.100"; two Phillips-type blades: #0, #1; one JIS-type S blade: #00; six hex driver blades: 0.028", 0.035", 0.050", 0.062", 0.078", 0.093"; six Torx® driver blades: T-5, 6, 8, 10, TP-8, TP-10; three socket wrench blades: 7/64", 1/8", 5/32"; four open end wrench blades: 7/64", 1/8", 5/32", 3/16"; one awl; one 3" extension; pouch. **(USA)**

No. 580SC245 ..... **$53.50**

Miniature Combination Tool Set - 41 pc



Tool Set contains 16 handles, 16 interchangeable tool ends, eight short arm hex keys and one tweezer, packed in vinyl pouch. **Includes:** Slotted Screwdrivers: 0.055", 0.080", 0.100", 0.125"; Phillips Drivers: #0, #1; JIS-type S Driver: #00; Hex Drivers: 0.050", 0.062"; 0.078"; Socket Wrenches: 5/64", 3/32", 7/64", 1/8", 5/32"; Short Arm Hex Keys: 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"; Awl: Fine point, Hardened Steel; Tweezer: 4" OAL. **(USA)**

No. 580SC252 ..... **$57.95**

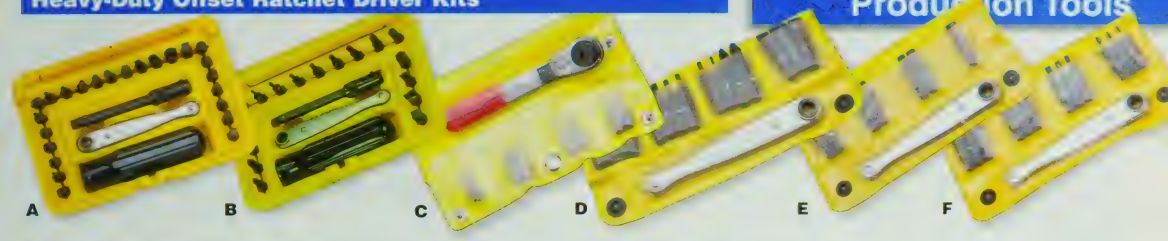
Metric Super Adapter Set - 35 pc

Includes: Insert Bit Adapter; Power Driver Adapter, Six Slotted Blades: 0.6, 1.0, 1.4, 1.8, 2.0, 2.5mm; Four Phillips-Type Blades: #000, #00, #0, #1; Four JIS-type S Blades: #000, #00, #0, #1; Eight Torx® Blades: T-3, 4, 5, 6, 8, 10; Tamper Proof: TP-8, TP-10; Six Hex Blades: 0.7, 0.9, 1.27, 1.5, 2, 2.5mm; Five Socket Wrench Blades: 2, 2.5, 3, 3.5, 4mm. **(USA)**

No. 580SC277 ..... **$71.25**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Heavy-Duty Offset Ratchet Driver Kits



A. Offset Inch/Metric Screwdriver Kit - 27 pc
Kit contains a Midget Ratchet, Extension and Screwdriver Handle plus the following Adapters: Allen Hex-type (size dist. across flats): .050", 3/32", 9/64", 7/32", 1/16", 7/64", 5/32", 1/4", 5/64", 1/8", 3/16"; Slotted Head (Size blade width): 3/16", 1/4", 3/8"; Phillips Head: No. 1, No. 2; 1/4" Sq. Drive.; Metric, Allen Hex-type: 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm.
No. 232SC022 ..... **$30.25**

B. Offset Inch/Metric Screwdriver Kit - 20 pc
Kit contains: midget ratchet; extension; screwdriver handle. Adapters: Allen Hex-type (Size dist. across flats): .050", 5/64", 7/64", 3/16", 1/8", 7/32", 1/16", 9/64", 1/4", 3/32", 5/32", 5/16"; Slotted Head (Size blade width): 1/4", 3/8"; Phillips Head: No. 1, No. 2; 1/4" Sq. Drive.
No. 232SC018 ..... **$24.85**

C. Torx-Type Kit - 8 pc
Kit contains a Midget Ratchet plus the following Adapters: Torx-type: T-5, T-6, T-7, T-8, T-9, T-10, T-15. Soft vinyl wallet included.
No. 189SC060 ..... **$14.00**

D. Inch Hex Kit - 16 pc
Kit contains a Midget Ratchet plus the following Adapters: Allen Hex-type (size dist. across flats): .050", 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16"; Slotted Head (size blade width): 1/4", 3/8"; Phillips: No. 1, No. 2; 1/4" Sq. Drive.
No. 232SC012 ..... **$15.30**

E. Metric Hex Kit - 8 pc
Kit contains a Midget Ratchet plus the following Adapters: Seven Metric Hex-type (size dist. across flats): 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm. Container included.
No. 232SC014 ..... **$9.45**

F. Inch Hex Kit - 13 pc
Kit contains a Midget Ratchet plus the following Adapters: Allen Hex-type (size dist. across flats): .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", plus container.
No. 232SC010 ..... **$12.65**

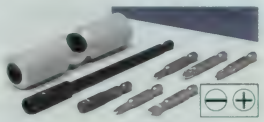
Kits, Bits & Handles

G. Mini-Ratchet Drive System - 50 pc
This Mini-Ratchet and metal bits are heat treated and torque-tested to Fastener Institute Standards and can deliver 400-inch pounds of torque to drive and remove all type fasteners. **Contains:** 3 tools, 44 bits, 3 removable bit caddies (Yellow for metric bits); stainless steel drive handle with 12° ratcheting action; ratchet extension; and bit end cap for thumb pressure. **Includes:** 12 Inch Hex Bits: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"; 8 Metric Hex Bits: 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm; 9 Slotted Screw Bits: No. 0 thru 4, 5, 8, 10-1/4; 5 Phillips bits: P0, P1, P2, P3, P4; 8 "6 spline" bits: T9, T10, T15, T20, T25, T27, T30,T40; Reed & Prince bit: 1/4"; 1/4" Socket adapter. ***Lifetime Warranty.*** **(USA)**
No. 307SC344 ..... **$64.50**

H. Midget Reversible Ratchet Offset Screwdriver Set - 19 pc
All-purpose set. Easy to use in all kinds of assembly, disassembly, adjustment & repair work involving Allen Hex, Phillips, & slotted screw types. All Driver Bits 1/4" hex shank. Allen bits from .050" thru 5/16"; slotted bits 1/4", 3/16"; Phillips #1 & #2; 1/4" x 1/4" adapter; reversible ratchet and spinner handle.
No. 272SC854 ..... **$62.15**

J. Electronic Bit Kit - 100 pc
This 100 pc kit is made from S-2 tool steel for your screwdrivers, wrenches, and variable speed drills. **Includes**: Phillips: #0, 1 2, 3; Pozidrive: #0, 1, 2, 3: Torx: T8, 10, 15, 20, 25, 27, 30, 40, 45; Torx Tamperproof: T8, 10, 15, 20, 25, 27, 30, 35, 40; Hexagon: 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"; Hexagon Tamperproof: 5/64", 3/32 7/64", 1/8", 9/64", 5/32"; Hexagon Metric: 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8mm; Hexagon Metric Tamperproof: 2, 2.5, 3, 4, 5, 5.5, 6mm; Triwing: 1, 2, 3, 4 Torq set: 6, 8, 10; Slotted: 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8; Spanner: 4, 6, 8, 10 Clutch: 5/32", 3/16", 1/4"; Square Recess: 0, 1, 2, 3; Spline: 5, 6. 8mm Wingnuts Magnetic Bit Holder: 1/4H to 1/4 Hex; Socket Bit Holder: 1/4 sq to 1/4 Hex; Extension: 1/4 sq. x 1/4 Hex 1"; 1/4 sq. x 1/4 Hex 2"
No. 189SC100 ..... **$19.90**

Combination T-Handle Set



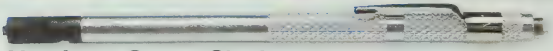
This convenient T-Handle Set performs double-duty. Use with standard 1/4" hex bits alone, or in combination with an extension. T-handle constructed of solid aluminum with steel driver inserts for strength and long life. **Includes:** three Phillips drivers #1, 2, 3; one 4F-5R slotted driver; one 1/4" extension; one 6" power bit extension; one 8F-10R slotted driver; one industrial metal box. **(USA)**
No. 875SC600 ..... **$31.95**

Offset Ratchet Driver Bit Set - 5 pc

All driver Bits: 1/4" hex shank. **Contains:** Slotted bits .316", 1/4". Phillips #1, #2. Reversible Ratchet.
No. 272SC856 ..... **$19.25**
No. 232SC026 Ratchet Only **$2.90**

Mechanical Screw Starters

For Standard Slotted Ferrous or Non-Ferrous Screws. No more fumbling with hard-to-position screws, a simple twist of the alloy steel bit and screw is firmly held, ready for trouble-free starting. Tool releases and resets automatically. Slender aluminum or shock-resistant nylon handles.



Aluminum Screw Starters

Regular - Slotted
No. 810SC012 5-5/8" ..... (1-9) **$6.00** (10+) **$5.65**
No. 810SC014 9-5/8" ..... (1-9) **$6.85** (10+) **$6.00**
Phillips Type
No. 810SC032 5-3/4" ..... (1-9) **$6.55** (10+) **$5.75**
No. 810SC034 9-3/4" ..... (1-9) **$7.10** (10+) **$6.30**

Nylon Screw Starters

Regular - Slotted
No. 810SC026 6-1/8" ..... (1-9) **$6.50** (10+) **$6.00**
No. 810SC028 9-1/8" ..... (1-9) **$7.10** (10+) **$6.25**
Phillips Type
No. 810SC040 6-1/4" ..... (1-9) **$6.25** (10+) **$5.50**

Quick-Wedge® Screw-Holding Screwdrivers

Shockproof, unbreakable Tenite II® handle with tough, durable spring steel blades.
Hollow-ground bit fits any slotted screw & won't mar screw slot. Use instead of conventional screwdriver. One screwdriver drives many sizes of screws. **(USA)**

TT No.	Blade Dia		Blade Tip Thickness		PRICE
482SC016	1/8" x 3"	3.18mm	.012"	.305mm	$5.55
482SC010	1/8" x 3"	3.18mm	.020"	.508mm	$4.95
482SC022	1/8" x 8"	3.18mm	.020"	.508mm	$5.80
482SC024*	1/8" x 8"	3.18mm	.020"	.508mm	$6.60
482SC034	3/16" x 2"	4.76mm	.031"	.787mm	$5.65
482SC036	3/16" x 4"	4.76mm	.031"	.787mm	$5.30
482SC040	3/16" x 6"	4.76mm	.031"	.787mm	$5.65
482SC044	3/16" x 8"	4.76mm	.031"	.787mm	$5.90
482SC048	3/16" x 4"	4.76mm	.037"	.934mm	$6.35
482SC052	3/16" x 6"	4.76mm	.037"	.934mm	$6.60
482SC064	1/4" x 4"	6.35mm	.042"	1.067mm	$7.30
482SC068	1/4" x 6"	6.35mm	.042"	1.067mm	$7.55
482SC072	1/4" x 8"	6.35mm	.042	1.067mm	$7.90

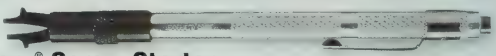
*Denotes tapered tip

Screw Starter Kit - 3 pc kit Includes: 1/8" x 3"; 3/16" x 4"; 1/4" x 4" sizes.
No. 482SC076 ..... **$17.55**

Phillips/Slotted

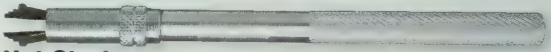
Double-Ended Screwdriver Starters

No. 810SC018 Nylon- 9" OAL..... (1-9) **$7.55** (10+) **$6.65**
No. 810SC020 Aluminum- 6-1/4" OAL ..... (1-9) **$7.55** (10+) **$6.65**



Torx® Screw Starter

Fits **TORX** screw sizes T-10, T-15, T-20, T-25, T-27 and T-30. Also fits most Allen- Hex and Phillips Screws. One quick "snap" and tool is set. Pocket clip. Permanent magnet at opposite end. **(USA)**
No. 810PR042 Anodized aluminum handle. 5-5/8" OAL..... **$6.10**



Nut Starter

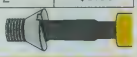
Use on small-size nuts. Fits:4-40-5/16" thread. Releases nut as threads engaged.
No. 810PR040 ..... **$6.15**

HJJ® Screw-Holding Screwdrivers

Mechanical holders in brass handles for slotted screws and cross-shaped recessed screws. **For Slotted Screws. (USA)**

TT No.	OAL	Blade Width	Blade Thickness	Recommended for Screw Sizes	PRICE
418SC010	10"			No. 6, 8, 10,	$6.85
418SC016	8"	3/16"	1/32"	12 and No. 1/4"	$6.50
418SC014	6"				$6.45
418SC046	8"	9/64"	.022"	No. 3, 4 & 5	$6.45
418SC044	6"	9/64"	.022"	No. 3, 4 & 5	$6.30
418SC066	3"	.102"	.018"	No. 0, 1, 2	$6.20
418SC024	8"	3/16"	1/32"	No. 6, 8, 10, 12-1/4"	$6.65
418SC050	6"	9/64"	.022"	No. 3, 4, & 5	$6.45
418SC053	3"	.102"	.018"	No. 0, 1, & 2	$6.30

For Types II and IA Cross-Shaped Recess Screw & Small-Diameter Slotted Screws or Phillips Screws



TT No.	OAL	Blade Width	Dia.	Recommended for Screw Sizes	PRICE
418SC040	8"	1/16"	1/4"	# 6, 8, 10, 12, 1/4"	$6.55
418SC064	8"	3/64"	3/16"	# 3, 4, & 5	$6.50
418SC062	6"	3/64"	3/16"	# 3, 4, & 5	$6.30

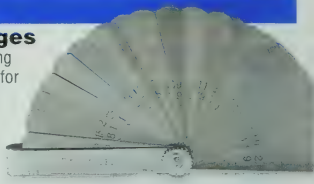
Thickness Gauges

Plastic Thickness Gage

New!

These plastic thickness gage assortments are designed with 13 sizes. **Includes:** Amber: .001"/.025mm; Purple: .0015"/.038mm; Red: .002"/.051mm; Green: .003"/.076mm; Tan: .004"/.102mm; Blue: .005"/.127mm; Matte: .0075"/.191mm; Brown: .010"/.254mm; Black: .0125"/.318mm; Pink: .015"/.381mm; Yellow: .020"/.508mm; White: .025"/.635mm; Coral: .030"/.762mm. **(USA)**
No. 656GA095 5" Fan Blade **$30.95**
No. 656PR900 12" Fan Blade **$20.00**

Cortland Feeler Gauges



Blades are tempered steel of exacting tolerances. Size etched in decimals for inch and millimeters. Nickel-plated case has knurled locking nut. No. 400PR052 has 26 3" long by 1/2" wide leaves of the following sizes: 0.0015, 0.002, 0.0025, 0.003, 0.004, 0.005, 0.006, 0.007, 0.008, 0.009, 0.010, 0.011, 0.012, 0.013, 0.014, 0.015, 0.016, 0.017, 0.018, 0.019, 0.020, 0.021, 0.022, 0.023, 0.024, and 0.025 in. (Metric range .037 to .635mm)
No. 400PR052 ..... **$6.15**

Lifters

For Easy Lifting of Heavy Weights!

Hand-Operated Vacu Lifters

Simply press the lifter down to grip and hold material. Suction is broken only by a finger-tip operated release. No pump, motor, or outside power source required!
Double 5" Cups
No. 134MI6541 ..... **$33.45**

Suction Lifters

Industrial-quality suction lifters for safe gripping when handling glass panels, synthetic panels, coated wooden panels, sheet metal, marble, ceramics, etc. All cups are 120mm (4-3/4") diameter. (Germany)

Double cup pattern. Lifting capacity approx. 80 kg./175 lbs.
No. 217AC602 ..... **$78.70**

Single cup pattern. Lifting capacity approx. 40 kg./88 lbs.
No. 217AC600 ..... **$73.45**

eazypower

Six Point 1/4" Hex Socket Set - 9 pc
Heat treated, chrome plated for cordless screwdrivers and drills. Nine piece 1/4" drive, six point socket set includes: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16" sockets; one 1/4" socket adapter.
No. 324SC310 ..... **$6.90**

BallHex™ Screwdriver Tip Assortment - 14 pc
Fits Allen™ screws. Includes: 5/64",3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 1/4", 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 1-1/4" OAL.
No. 324SC118 ..... **$16.80**

Female Hex Screwdriver Bit Holder and Drive Adapter
1/4" (F) Hex by 1/4" (F) Sq. Drive. 1" OAL.
No. 324SC217 ..... **$2.40**
1/4" (F) Hex by 3/8" (F) Sq. Drive. 1" OAL.
No. 324SC002 ..... **$5.10**

Torx® 1/4" Square Drive Set - 9 pc (Female)
Includes: 1/4", 3/8" combination. 1/4" sq. dr. T-10, T-15, T-20, T-25, T-27, T-30. 3/8" sq. dr. T-40, T-45, T-50.
No. 840TO699 ..... **$33.00**

Metric Video Game Bits - 10 pc
Includes: #.71 mm, #.89 mm, #1.27 mm, #1.5 mm, #2 mm, #2.5 mm, #3 mm, #4 mm, #5 mm Mini Metric. 1" OAL.
No. 324SC841 ..... **$9.25**

1/4" Socket Adapters
1" OAL. **No. 324SC214** **$1.75**
2" OAL. **No. 324SC348** **$2.30**
6" OAL. **No. 324SC000** **$6.55**

Block O Bits™ Sets

Security Kit – 34 pc
This 1" Isomax™ Insert Bits, 59-62 Rockwell Hardness, security bit set includes one each: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16"; 1/4" Security Hex Keys; #6,#8, #10 Tee+Cross™ (fits Torq-Set™ Screws); T8, T10, T15, T20, T25, T27, T30, T35, T40 Security Tee*Star™ (fits Torx Screw); #4, #6, #8, #10 Spanners; #1, #2, #3, #4 Triple Y™ (fits Tri-Wing); #1, #2, #3, #4 Phillips; 1/4" Magnetic Bit Holder and Honeycomb Plastic Holder.
No. 324SC134 ..... **$41.90**

Non Security Kit - 34 pc
Includes: #1, 2, 3 Sq. Recess; #2-3, 3-4, 6-8, 8-10, 10-12 Slotted; T8, T10, T15, T20, T25, T30, T40 Tee*Star™ (fits Torx™ Screws); #1, 2 OctoDriv™ (fits PoziDriv™); 5/64, 3/32, 7/64, 1/8, 9/64, 5/32 Hex Keys, #1, 2, 3 Phillips; Six #2 reduced Phillips - 1" OAL; 1/4" magnetic bit holder, honey comb plastic bit holder.
No. 324SC135 ..... **$22.60**

Telephone Kit - 34 pc
Includes: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" Security Hex Keys; T7, T8, T9, T10, T15, T20, T25, T27, T30 Security Tee*Star™; T5, T6 Tee*Star™; #0-1, 1-2, 2-3 Slotted; 6, 8, 10 Spanners; #1, 2, 3 Sq. Recess; #1 Phillips; #2 Non Reduced Phillips; #1, 2 Security Phillips - 1"; 1/4" magnetic bit holder, honeycomb plastic bit holder.
No. 324SC262 ..... **$51.40**

Magnetic Security Set - 34 pc
34 piece security set includes: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 1/4" security hex keys; T8, T10, T15, T20, T25, T27, T30, T35, T40 Security Tee*Star (Fits Torx™); #6, 8, 10 Tee + Cross (Fits Torq Set Screw); #4, 6, 8, 10 Spanner; #1, 2, 3, 4 Triple-Y™ (Fits Tri-Wing™); #1, 2, 3, 4 Security Phillips, 7-1/2" magnetic screwdriver handle with tip storage; honey comb storage case. Tips: 1" OAL.
No. 324SC114 ..... **$46.50**

Security and Tamper-Proof Bit Set - 35 pc
Includes: (9) Torx: T8, T10, T15, T20, T25, T27, T30, T35, T40; (4) Spanners: #4, 6, 8, 10; (6) Hex Fractionals: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32; (6) Hex Metrics: 2, 2.5, 3, 4, 5, 9mm; (3) Torq Set Screws: 6, 8, 10; (4) Tri Wing Screws: 1, 2, 3, 4; (1) Magnetic Bit; Case. **(USA)**
No. 189SC500 ..... **$11.90**

Power Screwdriver Bit Set - 39 pc
Use this 1/4" shank professional bit set with most variable speed drills, power screwdrivers (max. 2500 RPM), adapters and hand drivers. **Includes:** #1, 2, 3 Phillips; #2 reduced Phillips; 3-4, 6-8, 8-10, 10-12 slotted; #0, 1, 2, 3 sq. recess; 1/8", 5/32", 3/16", 1/4" clutch; T8, T9, T10, T15, T20, T25, T27, T30, T40 torx; 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16 hex recess (Allen); 4 extra #2 Phillips & magnetic bit holder. **(USA)**
No. 189SC305 ..... **$29.95**

Pic-A-Tip Insert Bit Assortments

eazypower

Phillips, Slotted Assortment - 7 pc
Includes: #1, 2, 3 Phillips; 4-5, 6-8, 8-10 Slotted; 2-1/8" magnetic bit holder in a plastic case.
No. 324SC833 ..... **$7.50**

Security Tee*Star Assortment - 7 pc
Fits Security Torx™. Includes: Security Tee*Star™T10, T15, T20, T25, T27, T30; 2-1/8" magnetic bit holder.
No. 324SC304 ..... **$15.00**

Hex Key Assortment - 7 pc
Includes: Hex Key 1/16", 5/64", 3/32", 7/64", 1/8", 9/64" hex keys; 2-1/8" magnetic bit holder.
No. 324SC305 ..... **$8.50**

Spanner Security Assortment - 7 pc
Includes: #4, 6, 8, 10, 12, 14 spanner insert bits and 2-1/8" magnetic bit holder in a plastic case.
No. 324SC020 ..... **$15.00**

Security Insert Bit Set - 30 pc
All tips are 59-62c in hardness. Includes: One each hex key- 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", tamper-proof torx screws, T8, T10, T15, T20, T25, T27, T30, T35, T40, Torq-setTM, 6, 8, 10, spanners, 4, 6, 8, 10, Tri-Wings 1, 2, 3, 4, 1/4" socket adapter, 7-1/2" Handle, magnetic bit holder and plastic case.
No. 324SC552 ..... **$41.90**

Miniature Electronics Kit - 30 pc
Includes: #0, 1, 2 Square Recess; #1-2, 2-3, 3-4, 4-5, 6-8, 8-10 slotted; T6, T7,T8,T9, T10, T15 Tee*Star™ (fit Torx screws); #1, 2 OctoDriv™; 1/6", 5/64", 3/32", 7/64" 1/8" hex keys; #00, 0, 1, 2 Phillips; 1/4" socket adapter; bit holder; 7-1/2" magnetic screwdriver with tip storage in the handle. Plastic storage case. 1" OAL.
No. 324SC060 ..... **$24.50**

One Way Security Set - 6 pc
One-way, security Screw Remover/Installer Set and Screwdriver Handle includes: #6, 8, 10, 12, & 14 Screw Removers/Installers, 7-1/2" magnetic Screwdriver Handle.
No. 324SC240 ..... **$39.85**

For Power Drillsand Screwdrivers!
Screwdriver Bits 8 pc
Eight screwdriving accessories in organizer. **Kit contains:** Bit holder; 1/4" insert nut setter; #1, #2, #3 Phillips; 4-5, 6-8, 8-10 Slotted; rubber holder
No. 354SC008 **$9.85**

Torque Power Bits

Designed to reduce Cam-Out, these Power Insert and Drive Bits are made of the finest heat-treated S.2 tool steel, to withstand twisting and reduce breakage.

Phillip Bits
1/4" Drive

TT No.	Blade Width	Blade Thick	Screw Size	PRICE
840TO030	.134"	.030	2F-3R	$3.50
840TO032	.154"	.034"	3F-4R	$3.50
840TO034	.187"	.036"	4F-5R	$3.50
840TO036	.215"	.038"	5F-6R	$3.50

Phillip Bits
1/4" Drive

TT No.	Point Size	Screw Size	PRICE
840TO010	1	2,3,4	$0.35
840TO012	2	5,6,7,8,10	$0.35
840TO014	3	12,14	$0.35

Hex Key
1/4" Drive

TT No.	Screw Sizes Hex	Cap	Set	Flat	PRICE
840TO016	1/16	1	5.6	3.4	$1.50
840TO018	5/64	2.3	8	5.6	$1.50
840TO020	3/32	4.5	10	8	$1.50
840TO050	7/64	6	-	-	$2.15
840TO022	1/8	-	1/4	10	$1.50
840WR012	9/64	8	-	-	$1.50
840TO024	5/32	10	5/16	1/4	$1.50
840TO026	3/16	1/4	3/8	-	$1.50

Torx*
1/4" Drive

No. 840TO006 Size: T6 ..... $3.50
No. 840TO072 Size: T7 ..... $2.35
No. 840TO062 Size: T8 ..... $1.75
No. 840TO064 Size: T9 ..... $1.75
No. 840TO066 Size: T10 ..... $1.75
No. 840TO068 Size: T15 ..... $1.75
No. 840SC018 Size: T20..... $1.75
No. 840TO082 Size: T55..... $2.60

** Tamperproof Available - Call for info.*

Tamper Proof Torx* Set - 4 pc
Sizes: ALR 3T, 4T, 5T, 6T. 1" OAL.
No. 758TT002 ..... $27.60

Torx* Set Internal - 5 pc
1/4" hex shank-1-3/16" Length (30 mm). Set of 5 bits. Sizes ALR 2, 3, 4, 5, 6.
No. 758TT003..... $33.00

Spanner Security Bit Set - 5 pc
Assortment: #4, 6, 8, 10, 12. 1" OAL.
No. 324SC264 ..... $9.45

Security Tee*Star™ Assortment - 5 pc
Includes: T8, T9, T10, T15, T25. 1" OAL.
No.324SC239 ..... $9.25

Security Phillips Insert Bit Set - 4 pc
Includes: #1, 2, 3, Made of fine quality chrome vanadium molybdenum tool steels, 59-62 Rockwell hardness, 1" OAL.
No. 324SC945 ..... $8.50

Isomax Power Bit Set - 4 pc
Use in power screwdriver or 1/4" drill/driver tools. Contains: #1, #2 Phillips; 6-8, 8-10 slotted. 1-15/16" OAL.
No. 324SC303 ..... $5.80

Screwdriver Tip Set - 10 pc
Includes: #1, 2, 3 Phillips; 6-8, 8-10, 10-12 slotted; T10, T15, T25 Tee*Star™ (fits Torx™ screws), 1/4" socket adapter. 1-15/16" OAL.
No. 324SC308..... $10.65

Tamper Proof Torx Set - 10 pc
Set includes: T8, T9, T10, T15, T20, T25, T27, T30, T35, T40. 1-15/16" OAL.
No. 324SC249..... $21.20

Phillips 1/4" Drive
2-3/4" OAL.
No. 155SC493 ..... $1.30

Screwdriver Bits 1/4" Drive-Phillips
No. 106SC509 ..... $1.95

Spanner Security Assortment - 4 pc
Includes: #4, 6, 8, 10. 1-15/16" OAL.
No. 324SC270 ..... $8.90

Balldriver Power Bits
In 1" & 3" lengths.

TT No.	L	Qty	Size	PRICE
204SC036	1"	12 pc	5/64" - 1/2"	$25.95
204SC099	1"	9 pc	2-12 mm	$22.85
204SC836	3"	12 pc	5/64" - 1/2"	$30.90

Triple-Y™ Security Tip Set - 4 pc
Includes: #1, 2, 3, 4. 1-15/16" OAL.
No. 324SC283 ..... $7.10

Phillips Security Power Bit Assortment - 4 pc
Includes: 1, 2, 3, 4 Security bit. 1-15/16" OAL.
No. 324SC940..... $9.25

Security Allen™ Key Assortment -10 pc
Fits security Allen™ screws.
Includes: 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 9/32" and 5/16" power bits. 1-15/16" OAL.
No. 324SC230 SAE $22.30
No. 324SC100 Metric $22.30

Non-Magnetic Metric Nut Setters - 7 pc
Includes: 3 mm, 4 mm, 5 mm, 6 mm, 7 mm, 8 mm, 10 mm. 1-1/2" OAL.
No. 324SC772 ..... $9.80

Nintendo "E" Series TEE*STAR™
Female screw remover fits TORX™ screws. Made of fine-quality, chrome vanadium molybdenum tool steels, 59-62 Rockwell hardness, 1-1/2" OAL.
No. 324SC298 ..... $6.75
No. 324SC299 ..... $6.75

3/8" Female Sq. Drive Reducer
3/8" (F) Sq. Drive by 1/4" (M) 1" OAL.
No. 324SC195 ..... $3.40
3/8" (F) Sq. Drive by 1/2" (M) 1" OAL.
No. 324SC295 ..... $5.90

Female Hex Screwdriver Bit Holder and Drive Adapter
1/4" (F) Hex by 1/4" (F) Sq. Drive. 1" OAL.
No. 324SC217..... $2.40
1/4" (F) Hex by 3/8" (F) Sq. Drive. 1" OAL.
No. 324SC002 ..... $5.10

1/4" Male Hex by 1/4" Male Sq.
No. 155AC108..... $7.55

Hex Socket Drive Adapters
1/4" hex to 1/4" square. For use with hex sockets.
No. 826TO202..... $7.20

Hex Keys Insert Bit Assortment - 8 pc
Fits Allen™ screws. Contains: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16" and 7/32". 1" OAL.
No. 324SC245..... $6.65

MINIATURE BLADES EASY AS 1-2-3!

Our miniature blades have a black oxide, matte finish and are designed to reduce cam-out. (USA)

1. Pick the Hex Socket..
2. Pick Your Mini-bit Holder...
3. Pick Your Bit!

Hex Socket
1/4" Drive
Use with miniature bit holder, 826TO204

TT No.	Screw Size Hex	Nut	Size	PRICE
826TO180	5/16	10,12	5,6	$3.50
826TO182	11/32	-	8	$3.50
826TO184	3/8	1/4	10	$3.50
826TO186	7/16	-	12,14	$3.50
826TO192	3/16	-	-	$3.50
826TO194	7/32	-	-	$3.50
826TO196	1/4	6.8	4	$3.50

Can be used only with square drive adapter.

Miniature Bit Holder
Use with all bits for 1/4" female drive tools.
No. 826TO204..... $1.95

Miniature Slotted Blades
No. 580SC028 .025" (0.6mm)..... $1.25
No. 580SC030 .040" (1.0mm)..... $1.25
No. 580SC032 .055" (1.4mm)..... $1.25
No. 580SC034 .070" (1.8mm)..... $1.25
No. 580SC036 .080" (2.0mm)..... $1.25
No. 580SC038 .100" (2.5mm)..... $1.25
No. 580SC018 .125" (3.2mm)..... $1.75

Miniature Phillips - Type
No. 580SC091 #000 ..... $3.15
No. 580PR090 #00 ..... $2.25
No. 580AC003 #0 ..... $2.00
No. 580SC004 #1 ..... $2.75

Miniature Torx® Blades
No. 155AC120 T-0..... $5.50
No. 580SC097 T-1..... $5.50
No. 580SC809 T-2..... $5.50
No. 580SC095 T-3..... $5.00
No. 580SC087 T-4..... $5.00
No. 580SC080 T-6..... $5.00

Hex Key

TT No.	Screw Sizes Hex	Cap	Set	Flat	PRICE
580SC040	.028	-	0	-	$2.25
580SC042	.035	-	1.2	0	$2.25
580SC044	.050	0	3.4	1.2	$2.25
580SC046	.062	1	5.6	3.4	$2.25
580SC048	.078	2.3	8	5.6	$2.25

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internet site
...COMING
January 2001!
www.techni-tool.com

D. Tool Stand/ Tool Balancer

To protect your investment, it is recommended that the tool be hung on a support stand and that it be balanced. It will support one tool up to 15 lbs. Stand is 3' tall and has a 2' arm. Balancer will keep tool at whatever level or position operator leaves it.

Tool Stand
No. 106SC003 ..... **$133.85**
Tool Balancer
No. 106SC313 ..... **$27.50**

E. Power Packs

ALL CL Series Tools Require a Power Pack. Will operate any CL-Series tool. Has built-in circuit controller. UL listed. Has switchable power output of 20 or 30VDC, which allows two RPM ranges for the drivers. Type:CLT-50; Control Max: 2.5 Amps; Safety 4A Breaker(Output), 2A Fuse (input); Input: 120 VAC.
No. 106MI163 ..... **$230.20**

A. Torque Tester

LEASING AVAILABLE!

Portable torque testers to calibrate air tools, electric tools or hand torque wrenches. Give digital readout of peak value in either direction.

TT No.	Type	Measurement Range	Read Out	PRICE
106TO012	HP-100	1.5-100.0 kgf/cm. 1.5-90.0 ibf/in. 0.15-10.00N/m.	Switchable ibf/in., kgf/cm., ibf/in.	$2746.85
106SC010	HP-10	2.5-25 ibf/in.	ibf/in.	$2746.85

B. & C. Precision Screw Feeders

Fast, Simple Small Fasteners Pick-Up for Precision Assembly Work. Once the supply chamber is full, the dipper fills the feeder chute with screws, stopping automatically when the chute is full. The magnetized bit of the driver needs only be slipped into the bit guide for instant pick-up. Two styles are available: fixed rail and interchangeable rail. The interchangeable style can handle a range of screws simply by plugging in the correct rail. DC-12-16V Power supply included.

Fixed Rail Style				
TT No.	Type	Metric Max. Nominal Screw Size	Inches Max. Nominal Screw Size	PRICE
106PR205	SAS-526IIV	2.6 mm	#3	$710.30
106SC228	SAS-530IIV	3.0 mm	#4	$710.30
106SC215	SAS-540IIV	4.0 mm	#6 + #8	$710.30

Interchangeable Rail Style						
TT No.	Type	Screw Size	Screw Size	Rail	Rail	PRICE
106SC304		#1	2.0 mm	R 20	67304	$130.00
106SC306		#2	2.3 mm	R 23	67306	$130.00
106SC338	NJ-2326	#3	2.6 mm	R 26	67308	$130.00
106SC310	NJ-2330	#4	3.0 mm	R 30	67310	$130.00
106SC312		#6	3.5 mm	R 35	67312	$130.00
106SC314	NJ-4535	#6 & #8	4.0 mm	R 40	67314	$130.00
106SC316		#10	5.0 mm	R 50	67316	$130.00

Torque-Controlled Manual Drivers

Torque-controlled manual drivers provide accurate, repeatable torque. four pre-set ranges. *(Not Shown)*

TT No.	Torque	Width	Length	Bits	PRICE
106SC098	6-32 ozf/in.	7/8"	4-1/4"	1/4" hex	$98.40
106SC099	10-100 ozf/in.	1"	5-3/8"	1/4" hex	$96.50
106SC103	1.5-15 ibf/in.	1"	5-3/8"	1/4" hex	$96.50
106SC104	4-40 ibf/in.	1-1/4"	6"	1/4" hex	$103.75

F. Torque Controlled Drivers

2.7-27 oz/in.

Now, a torque-controlled driver for miniature screws. Weighs only 7.5 oz. Adjustable torque clutch, automatically stops to eliminate over-tightening. Model CL-2000.

Mid-Range Torques of 1.2 - 21 ibf/in.

Supplied with a 1/4" hex collet, externally replaceable brushes and a 6 ft. detachable cord. When selected torque is reached, drivers stop motor rotation to prevent over or under-tightening. The torque adjusting nut can be locked in place to prevent movement of the torque nut once the tool is calibrated. 2.5 amps.

Low Torque Range of .5-4.5 lbf*in

Comes with your Choice of 1/4" hex collet. 1.5 amps.

Push-to-Start Models

3.25 lbs of downward pressure start these tools. Help prevent "cam-out" and excessive bit wear. Push-to-start feature designed by PS suffix

TT No.	Type	Torque	Appx. RPM @30VDC	Appx. RPM @20VDC	Bits	PRICE
106SC107	CL-2000	2.7-27ozf/in.	680	490	4.0 mm	$505.00
106SC121	CL-6500	1.2-14lbf/in.	910	600	1/4" hex	$643.35
106SC124	CL-7000	2.5-24lbf/in.	750	500	1/4" hex	$695.25
106SC641	CL-4000	.5-4.5 lbf/in.	1000	670	1/4" hex	$520.30
106SC111	CL-4000	.5-4.5 lbf/in.	1000	670	4.0 mm	$520.30
106SC120	CL-6500-PS	1.2-14 lbf/in.	910	600	1/4" hex	$643.35
106SC125	CL-7000-PS	2.5-21 lbf/in.	750	500	1/4" hex	$695.25

G. Plug-In Precision Torque Drivers

Plug directly into 110VAC outlet. Built-in AC to DC converter. Has new ergonomic design to minimize operator fatigue. Automatically stops motor rotation once pre-set torque is reached. Optional pistol grip attachment available. Push-to-start feature designed by PS suffix.

TT No.	Type	Torque	RPM	Bits	PRICE
106SC221	ACL-10	2-8 lbf/in.	1500	4.0 mm	$641.40
106SC222	VZ-1820	3.5-16 lbf/in.	2000	1/4" hex	$793.30
106SC324	VZ-3012	8-26 lbf/in.	1200	1/4" hex	$793.30
106SC226	ACL-10-PS	2-8 lbf/in.	1500	4.0 mm	$712.70
106SC351	VZ-1820-PS	3.5-16 lbf/in.	2000	1/4" hex	$793.30
106SC225	VZ-3012-PS	8-26 lbf/in.	1200	1/4" hex	$793.30

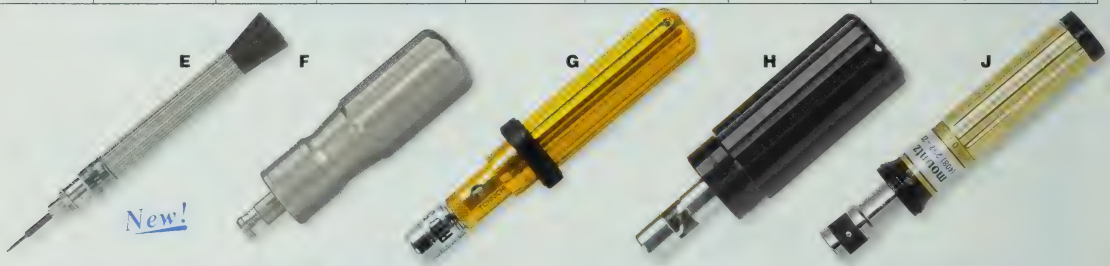
VZ Series | ACL Series | CL Series | Class 100

Type	TT No.	Model	lbf.in Torque Range	RPM @ 30 VDC/20VDC	4mm HIOS or 1/4" Hex Drives	Push-to-Start	PRICE
A	584TO350	VZ1820	3.5-16 lbf.in	2000	Hex	No	$798.00
	584TO351	VZ1820PS	3.5-16 lbf.in	2000	Hex	Yes	$793.30
	584TO353	VZ3012	7.5-26 lbf.in	1200	Hex	No	$798.00
	584TO354	VZ3012PS	7.5-26 lbf.in	1200	Hex	Yes	$798.00
	584PR378	VZ4506	8.7-39.1 lbf.in	600	Hex	No	$949.00
B	584TO191	ACL10	2-9 lbf.in	1500	HIOS	No	$682.00
	584TO192	ACL10PS	2-9 lbf.in	1500	HIOS	Yes	$746.00
C	584SC106	CL3000	3-28 ozf.in	1000/670	HIOS	No	$505.00
	584SC117	CL3000PS	3-28 ozf.in	1000/670	HIOS	Yes	$502.20
	106SC110	CL4000	0.2-4.5 lbf.in	1000/670	Hex	No	$520.30
	584PR6000	CL6000PS	1.0-10 lbf.in	800/500	Hex	Yes	$620.00
	584SC121	CL6500	1.2-14 lbf.in	910/600	Hex	No	$645.00
D*	584SC369	SSQ6500XCR	2.2–11-3 lbf.in	900/600	Hex	No	$811.00

*Cleanroom Class/100 Compatible

Transformers for DC Electric Screwdrivers and SubControl Box

TT No.	Model	Use with Type	Use with Model	Max # Drivers	Control Box	Output VDC	Output Amps	PRICE
584PR174	144174	C	CL3000	2	Built-in	20/30	2.8A	$511.00
584AC163	144163	B & C	CL3000-CL7000	1	Built-in	20/30	2.5A	$230.20
584PR165	Subcontrol Box	C	MC 70L	–	CBO-5	–	–	$96.18



E. AMLD Miniature Torque Driver

The AMLD tightens fine screws for precision electronic equipment computer, etc. Used for steady precision operations with finger torque structure. Easy torque adjustment, when you feel the click, tightening is completed. **Features:** non-rotary slip clutch for fine screw; toggle type torque detection mechanism ensures accuracy and long durability. (Bits Optional). (Japan)

No. 782SC013 (AMLD3Z) 1-3 in. oz./0.05 Grads **$493.00**
No. 782SC016 (AMLD6Z) 2-8 in. oz./0.1 Grads..... **$493.00**
No. 782SC120 (AMLD12Z) 3-12 in. oz./0.2 Grads **$493.00**

Interchangeable Torque Bits

Slotted Head Bits; .0055" OAL
No. 782SC111 .039"W **$5.50**
No. 782SC112 .059"W **$5.50**
No. 782SC113 .079"W **$16.20**

Phillips Head Bits; .0055" OAL
No. 782SC115 #0 ..... **$5.40**
No. 782SC116 #1 ..... **$5.40**

F. Cleanroom Torque

Exceeds Class 100 cleanroom standard with special seals and microfiltered lubricant to prevent contamination. External steel components are high grade stainless steel to inhibit any form of corrosion. Aluminum handles sealed with PTFE impregnated anodized finish. *Meets ISO 6789:1992.*

TT No.	Drive in.	American	Metric	PRICE
584SC3200	1/4" F/Hex	0.7 - 32ozf.in	50-3200gf.cm	$312.00
584SC321	1/4" F/Hex	3ozf.in - 12lbf.in	200gf.cm-14Kgf.cm	$285.00
584SC3220	1/4" F/Hex	8ozf.in - 36lbf.in	600gf.cm-40Kgf.cm	$312.00

G. TOHNICHI Torque Limiting Driver

Prevent over-torquing. When set torque is reached, screwdriver mechanism automatically freewheels to prevent further tightening. Ideal for electronic and computer assembly. **Features include:** Adj. precision micrometer, U.S. Standard; Adj. precision scale in in-oz, in-lb, cm-kg; Spring-load, locking collar; Easy-release bit holder; Anti-backlash; Accuracy ±3%. Drive: 1/4 F/Hex.

TT No.	Range	Increments	OAL	PRICE
782SC050	15-50 in-oz	0.25 in-oz	3-5/8"	$139.00
584TO024	2-12 in-lbs.	0.05 in-lbs.	4-9/16"	$136.00
782SC026	6-26 in-lbs.	0.1 in-lbs.	5-7/16"	$160.00

H. RNTD Rotary Slip Torque Driver

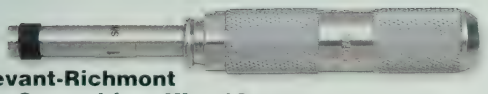
This torque drivers with rotary slip clutch is used for mass production, maintenance services and single purpose tightening. Ensures accuracy and long durability while reducing the possibility of over-torquing. **Features:** rotary slip clutch type; preset version of RTD; toggle-type torque detection mechanism; rotary slip clutch. (Use a torque meter for setting torque). (Bits optional). (Japan)

No. 782SC150 (1.5 RNTD) 7-20 in. oz. **$98.30**
No. 782SC030 (3 RNTD) 15-40 in. oz. **$98.30**
No. 782SC060 (6 RNTD) 30-80 in. oz. **$99.00**
No. 782SC012 (12 RNTD) 60-160 in. oz..... **$103.00**
No. 584SC006 Minor 3 ozf.in-12 lbf.in..... **$132.00**
No. 584SC007 Standard 8 ozf.in **$138.00**

J. Torquemaster

Torque-Limiting Screwdriver made in England. Range: .07-31 oz-in; Color: Gold Length: 4-1/8"; Dia.: 11/16"; Wt.: 2.5 oz.; Cap.: 35-720 -cm. 1/4" Female Hex.
No. 584TO126..... **$161.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400



Sturtevant-Richmont Torque Screwdriver Kit - 13 pc

Kit contains factory pre-set torque limiting screwdriver with capacity at 4-100 in.ozs. **Includes**: Hex 5/16", 11/32"; Phillips #1, #2; Hex Key 1/16", 5/64", 1/8", 3/16"; Slotted Bit 3F-4R .034", 4F-5R .036", 5F-6R .038"; Adapter 1/4F, 1/4M. *Meets ANSI B107.14M.*

No. 304T0058 ..... **$134.30**

Torque Limiting Screwdriver Only

No. 304T0056 4-100in.ozs **$113.00**

No. 304SC064 2-15in.lbs **$118.00**

Other Preset models available-Call!

Dial Analyzer

Designed to set and calibrate all types of hand torque wrenches and screwdrivers. Accuracy is ±1% or one graduation. Mechanism is enclosed in diecast aluminum housing. Supplied certificate is traceable to NIST. Easy-to-read dual scale. Memory pointer retains maximum reading. Models are designed for right-hand operation, and can be bench mounted.

Dial Diameter 4". (U.K.) (*Metric models available*).

No. 584PR091 Torque Range: 0-10 ozf.in (0-7 cN.m) **$818.00**

No. 584T0118 Torque Range: 2-36 lbf.in (0.2-4 N.m)..... **$943.00**

Torque Screwdriver Inch Kit - 29 pc

Kits includes one each of the listed bits and a driver at 2-36 in.ozs. Hex: 5/64", 3/32", 7/64", 9/64", 1/8"; Posidrive: #1, #2; Slotted: 0-1, 3-4, 5-6, 8-10, 12-14; Socket Adapter 1/4"; Bit Holder 1/4"; Phillips: #0, #1, #2, #3; Torx: T10, T15, T20, T25, T30, T40; Sq. Recess: 0, 1, 2, 3; Storage Case. NIST Certificate included with each screwdriver. **(USA)**

No. 304T0036 Inch Kit..... **$250.00**

Inch Torque Driver Only

No. 304T0034 2-36 in.lbs. **$196.00**

Metric Driver Only

No. 304PR563 Preset to 7-36 in-lbs. **$153.00**

Economy Torque Testers

Calibrate all types of hand torque tools. Units display digital readout of peak value in either direction. An audible signal.

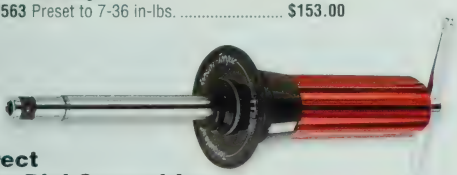
Optional power tool adapters allow use with most assembly tools. Cannot be used with impact tools. Each model comes complete with internal rechargeable battery, AC adapter, female square adapter and certificate of calibration (NIST Traceable). ±1% Accuracy. ***Other models available - Call for information.***

No. 106TE071 2.5-25 lbf. in. **$1799.00**

No. 106TE072 5-50 lbf. in. **$1799.00**

No. 106TE073 25-250 lbf. in. **$1799.00**

LEASING AVAILABLE!



TT Direct ReadingDial Screwdriver

The TT-dial-indicating screwdrivers can be used to monitor torque as it increases or decreases or to display peak torque applied. Memory system holds maximum torque reached until it is reset. Features: Flat torsion spring for best linear characteristics in both directions; Repeatable accuracy is ±5% of reading. Drive: 1/4 F/Hex.

TT No.	Torque	Graduation	Length	PRICE
584T0151	1-70 ozf.in	2 ozf.in	7.0	$256.00
584T0153	1-140 ozf.in	5 ozf.in	7.0	$256.00
584T0155	1-20 lbf.in	0.5 lbf.in	9.86	$276.00
584WR157	1-40 lbf.in	1.0 lbf.in	9.86	$276.00

STC Torque Driver STC Digital Torque Driver

STC has multiple use capabilities for torque check, data processing and quality control. This tightening and inspection torque driver has high operational efficiency with a built-in digital type and infrared data output. Data memory reads up to 100 readings. **Includes:** adjustable display angle; ratcheting function; data processing functions. **Specs:** Arithmetic function: sampling, maximum, minimum, means; Measurement mode: PEAK/RUN; Data output: infrared ray; Function: manual/auto, 0.5 - 5.0 sec. adjustable by 0.5 step, power off (after 3 min.) battery check. Accuracy±1%. Bits optional. (Japan)

No. 782SC070 (STC70Z) 14.0~70.0 in. oz..... **$716.00**

No. 782SC005 (5STC-A) 1.000~5.000 in. lbs. **$716.00**

No. 782SC020 (20STC-A) 4.00~20.00 in. lbs. **$716.00**

Lufkin Measuring Devices

Job Pro Calculator

Features dedicated, function-specific keys for fast answers to many common construction calculations. Allows you to directly calculate total board feet of different lengths and widths of lumber with dollar cost. Directly solve right triangle problems. Find common rafter lengths, assuming only pitch and span, rise and run, pitch and run, or degrees of pitch and run are known. **Specs:** 11-digit display (seven normal plus four fractional digits); Fractional rounding: 1/2" - 1/64"; Utility functions: ±, %, pi, 1/x, x2, square root; Internal electronic components shock and impact resistant. **(USA)**

No. 272PR101 ..... **$91.10**

The Ultrasonic Measuring Device

Lufkin

Fast, accurate way to measure indoor distances from two to 50 feet. Two-position pivoting measuring head lets you use the most comfortable position when taking measurements. Bright easy-to-read LCD display. Internal electronic components shock and impact resistant. 99% accurate over entire range of 2' to 50' in feet/inches and metric. **(USA)**

No. 272PR106 ..... **$40.25**

Production Tools

A. Digimatic Plastic Caliper - 6"

Ideal for use in the lab or any application involving delicate or unusual workpieces. Plastic construction makes for durable and lightweight use, and plastic jaws won't mar surfaces. **Specifications:** Range: 0-6"/0-150mm; Resolution: .001"/0.1mm; Accuracy: ±008/±0.2mm. Blue.

No. 575GA103 (700-103B)..... **$39.50**

B. Caliper - 6"

Large LCD digits ensure error-free reading in either inch or mm mode. Zero point can be set anywhere. **Specs:** All metal head with plastic housing. Measuring Range: 0 to 6" (0 to 150mm); LCD Resolution: .001" (0.1mm); Acc (20°C): ±005" (±0.2mm); Response Speed: 63"/s; Battery: Silver oxide cell; Battery Life: approx. two years; Display: LCD 4-digit (-) sign; Alarm: battery voltage low, over speed.

No. 575GA113 (700-113)..... **$89.00**

C. Dial Calipers - 6"

Slider displacements are amplified by a rack-and-pinion mechanism and indicated on the dial. The sharp jaw edges provide easy access to portions that ordinary calipers can not measure. Can measure steps. Features an extra-rigid main beam. Includes case. **Specs:** All metal head with plastic housing. Range: 0-6"; Resolution: .001"; Range/Rev.: .10"; Acc: ±.001"; Dial Face: B.

No. 575GA637 (505-637-50) **$100.00**

D. Digimatic Calipers - 6"

Provides a digital readout to .0005"/0.01mm for error-free reading and can measure steps. Functions: zero-setting, data hold, low battery alarm and data output. Provided with a data saving output port for connection with the SPC system. Powered by a single SR-44 battery. Battery life: approx. two years under normal use. **Specs:** All metal head with plastic housing. Range: 0-6"/0-150mm; LCD resolution: .0005"/0.01mm; Accuracy: ±.001.

No. 575GA196 (500-196) Without SPC output; with thumb roller .. **$119.00**

No. 575GA171 (500-171) Absolute function type with PC output.... **$139.00**

Quick Mini Micrometer - 0.5"

This Micrometer is a fast, yet accurate, way to check thickness and simple dimensions with ease. Great for thin wires, glass, ceramic, pin gauges and more. A large, easy-to-read LCD displays your measurements in either inch or metric formats. **Specs:** Measuring Range: 0.5"/12mm; Resolution: .0005"/0.01mm ±0.01"; Max. Response Speed: 1,600mm/sec.; Alarm: battery voltage low, over speed.

No.575GA118 (700-118)..... **$88.00**

Digimatic Micrometers - 1"

Lightweight design and digital display allow measurements to be taken with the micrometer held in one hand. Features two measuring modes–ABS (absolute) and INC (incremental)–for efficient measurement (with SPC output model). Functions: origin setting, inch/mm selection, zero-setting, data hold, error alarm, auto-sleep, data output. Can be linked to the SPC system. Range: 0-1" (0 – 25.4mm).

No. 575GA130 (293-721-30) with SPC output; ratchet stop **$183.00**

No. 575GA630 (293-766-30) without SPC output; ratchet-friction thimble **$136.00**

IDS Digimatic Indicators

Large LCD with .335" digits for easy reading. **Functions include:** origin, inch/mm, ± direction and on/off. **Specs:** Measuring Range: 0 to .5" (0 to 12.7mm); LCD Resolution: .0005"/0.01mm; Acc (20°C): .0008" (0.02mm); Measuring Force: 1.4N or less.

No. 575GA683 (543-683)..... **$123.00**

Precision Micrometer

This forged-steel frame, precision micrometer is complete with chrome thimble and barrel for easy-to-read contrasting graduation. A hardened, precision ground measuring surface, with positive spindle lock, holds measurements. Reads to .001" and accurate to .0003"; Quick and easy zero adjustment with spanner wrench. Range 0" to 1".

No. 400PR001..... **$51.90**

Digimatic Tool Kit Inch/Metric - 6"

Includes: Digimatic micrometer (Friction Thimble Type), Range: 0-1", LCD Resolution: .00005"; Digimatic caliper, Range: 0-6", LCD Resolution: .0005"; and a mahogany case.

No. 575GA940 (950-940-7)..... **$301.00**

Assorted Calipers/Gauges

Ultratest® Electronic Digital Caliper - 6"

Outside, inside and depth measurements are quickly obtained and read out on the high contrast LCD display. Floating zero checks deviation from reference size. True inch/metric conversion without rezeroing. Switchable inch/metric selector with resolution to .0005" or .01 mm. Peak mode setting to indicate largest or smallest measurements of two.

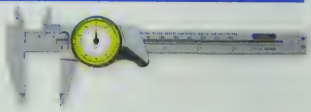
No. 400PR209 ..... **$306.50**

Digital Electronic Caliper - 6"

Provides easy, fast, error-free measurements, plus ability to output for SPC analysis and documentation. Display of horizontal bars showing .0005" increments of readings for easy viewing. Zero at any position. Hardened stainless steel. **Features include:** Hold measurement, push-button inch/millimeter conversion, low and high "limits" mode. Easy-to-read LCD digital readout; auto shutdown, interface with peripherals that support RS232-C. **Specs:** Accuracy: ±.001" (±0.03 mm); Resolution: .0005" (0.01 mm); Range: 0-6" (0-150 mm); Power: Two 3V batteries.

No. 734GA065 ..... **$261.40**

Swiss-Made Hi-Impact Plastic Dial Gauges - 6"



Make outside, inside, step and depth measurements instantly! Equipped with thumb-rollers. Anti-glare scales make it easy to read. Large 1-1/2" diam. dial. Gauges are non-magnetic. Capacity: 0-5" Scales on Dial: .010" 1 revolution of the dial=1" Scales on Gauge: 1/10"; 1/64" Jaws: 1-5/8".

No. 400GA022..... **$27.85**

Cap.: 150mm (5-1/4") Scales on Dial: .1mm 1 revolution of the dial=10mm Jaws: 1-5/8".

No. 400GA024..... **$29.30**

Dial Caliper - 6"

For inside, outside and depth measurements. Dial Indicator has fine-line indicating hand for accurate reading. Adjustable dial. Thumb wheel fine adjustment. Range 0-6", Grad. .001". *(Imported)*

No. 400PR208..... **$134.00**

Direct Read Digital Caliper - 6"

This fiberglass-reinforced, super polyamid, digital caliper features accurate digital measurements in both inches and metric, direct reading 0.001"/ 0.1mm, Adjustable 0, and Friction thumb roller. Swiss precision crafted.

No. 400GA143 Right Handed **$69.50**

No. 400GA147 Left Handed **$69.50**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Stainless Steel Rulers

10ths & 100ths on one side and 32nds and 64ths on other side 6" OAL, 15/32" wide. Flexible.
No. 400PR116 ..... **$5.00**

32nds and 64ths on one side and in 8ths and 16ths on other side. 3/4" wide 6" OAL.
No. 400PR122 ..... **$5.00**

One side graduated in millimeters and 16ths. Flexible. 15/32" wide. 6" OAL.
No. 400PR076 ..... **$1.80**

Precision Protractor

The Ultra Rule™ Precision Protractor has micro-fine guide holes at every 45°, 30°, 22.5°, 5°, 1° and 0.5° interval to plot any angle with ease and accuracy. A metal T-bar and see-through crosshairs provide exact alignment against the edge of your workpiece. Remove the T-bar to work on flat surfaces or to use the 6" centering scale. Four angle scales: 0° left to 180° right; 180° left to 0° right; 0° top to 90° left and right and 90° top to 0° left. **(USA)**
No. 400GA030 ..... **$29.60**

Ground edges. Front: Quick-reading 10ths and 100ths. Back: Quick-reading 32nds and 64ths. 12" OAL.5/32" wide– Stainless
No. 400PR026 15/32" wide – Stainless **$7.10**
Flex rule 1/2" wide – Chrome
No. 400PR198 ..... **$9.55**

Graduated in 32nds, 16ths, 20ths, 50ths, 64ths, 100ths and 10ths on one side and in millimeters and 1/2 millimeters on other side. 3/4" wide. Rigid. 6" OAL.
No. 400PR124 ..... **$5.35**
Graduation is 16mm and has a 1/4" width. 6" OAL.
No. 400PR074 ..... **$1.40**

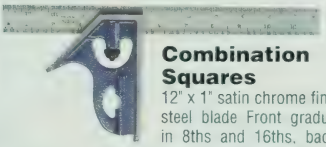
Blacken Nickel Inch/Decimal Rule

Easy-to-read ultra-fine black graduations against a hard satin chrome finish. Graduation: Side 1: 10ths, 100ths, Side 2: 32nds, 64ths. 6" OAL.
No. 400PR645 ..... **$5.45**

Precision Marking Rules - 12"

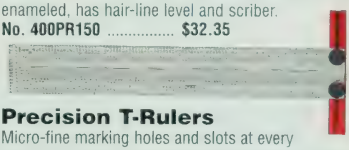
Micro-fine marking holes and slots at every scale position instantly locate a sharp pencil point or scribe exactly where you want it. Place your mark precisely on target with zero uncertainty and no eye strain. **(USA)**

Two sides graduated in 32nds and 64ths with decimal equivalents and depth gauge pocket clip. 15/32" wide. 6" OAL.
No. 400PR068 ..... **$2.00**



Combination Squares

12" x 1" satin chrome finish steel blade Front graduated in 8ths and 16ths, back in 16ths and 32nds. Cast iron head machined and enameled, has hair-line level and scriber.
No. 400PR150 ..... **$32.35**



Precision T-Rulers

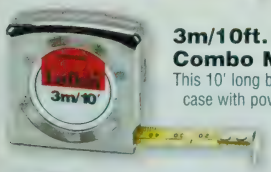
Micro-fine marking holes and slots at every 1/16", 1/32" and 1/64" scale position instantly locate your sharp pencil or scribe at the exact measurement with zero uncertainty and no eye strain. **(USA)**
No. 400GA832 12"L **$25.75**

A. No. 400GA241 32/mm Scale **$9.75**
B. No. 400GA242 32/10's Scale **$9.75**

Measuring Tapes

Power Return Tape Measure

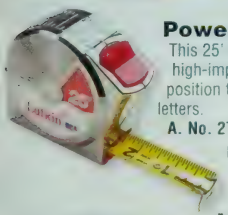
This 1" x 25' tape measure features: 3" base for inside measurements; shock absorber to protect the end hook on return; Quad hook for longer blade life; non-glare ultra matte blade finish makes it easier to read in sunlight; clear coat blade protection you can write on and wipe off. **(USA)**
No. 272PR2130 ..... **$25.15**



Lufkin

3m/10ft. Measurall® Combo Metric/English

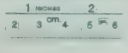
This 10' long by 1/2" tape comes in a chrome-plated case with power retraction operation, yellow-clad blade, and a belt clip.
No. 272PR104 ..... **$10.80**



Power Return Tape

This 25' long tape comes in a comfortable, rounded high-impact case with an easy-to-read blade and a top-position toggle lock. Orange & yellow tape with black letters.
A. No. 272PR325 Orange Tape 3/4" x 25' **$16.50**
No. 272GA125 Yellow Tape 1" x 25' **$22.25**

A. No. 272PR325



B. No. 272PR116

Inch/Metric Tape

Graduated 50ths (.02) of a foot for the first foot and 10th of inches the balance (108 in.). Automatic power tape, red and black marking on a yellow background.
B. No. 272PR116 ..... **$11.60**

Pee Wee Inch Scale

Small, compact, slim and trim. 1/4" wide, black graduations on yellow background. Graduated consecutively inches to 16ths; first 12 inches to 32nds. Graduated consecutively inches to 16ths; first 12 inches to 32nds. 10 ft.
No. 272PR094 (Inch Only) **$7.70**

Lufkin

25' Quikread Power Return Tape

This easy-to-read vertically numbered tape measure has graduations printed in fractions and decimal equivalents. The durable ABS case fits your hand for comfort and can withstand rugged use on the job site Designed with a positive lock to hold the blade in place for dependable measurements. 1"W x 25'L. **(USA)**
No. 272PR142 (QR1425) **$17.85**

Powerlock® II Tape Rule 1" Wide Blade

25' long blade provides longer, faster measurements. Remains rigid up to seven feet. Yellow blade has large, easy-to-read numerals and stud markings every 16 and 19.2 inches. Blade is protected with a clear, tough film of Mylar. **Features:** Three rivet Tru-Zero hook; thumb lock and belt clip.
No. 732PR112 ..... **$21.85**

Digitape™

This professional tape measure will: Accurately display feet, inches, fractions, or centimeters in large digital figures. Freeze a measurement in memory. Convert between English and Metric readings. Automatically add the length of its case to an inside measure. Reset to a Zero reading at any blade position. Calibrate, and even shut itself off Resist breakage with its high-impact polymer case
No. 734PR443 ..... **$43.25**

Socket Sets

1/4" & 3/8" Drive Fractional/Metric Socket Set Kit - 42 Pcs

New!

Includes: 1/4" Drive: Ratchet, adapter, 6" Extension; (9) 12-point fractional sockets: 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 and 1/2"; (10) 12-point metric sockets: 5, 5.5, 6, 7, 8, 9, 10, 11, 12 and 13mm; 3/8" Driver: Ratchet, Adapter, 3" Extension; (7) 6-point Fractional sockets: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, and 3/4"; (10) 6-point Metric Sockets: 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19mm. **(USA)**

No. 322SC010 ..... **$336.95**

12 Point 1/4" Drive Fractional/Metric Socket Set - 23 pcs

Includes: Ratchet: Adapter; 2" & 6" Extensions; (9) Fractional Sockets: 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 and 1/2"; (10) Metric Sockets: 5, 5.5, 6, 7, 8, 9, 10, 11, 12 and 13mm. **(USA)**

No. 322SC084 ..... **$170.25**

12 Point 1/4" Drive Fractional Socket Set - 13 pcs

Includes: Ratchet; Adapter; 2" & 6" Extensions; (9) Fractional Sockets: 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, and 1/2". **(USA)**

No. 322SC085 ..... **$108.25**

12 Point 1/4" Drive Metric Socket Set - 14 pcs

Includes: Ratchet; Adapter; 2" & 6" Extensions; (10) Metric Sockets: 5, 5.5, 6, 7, 8, 9, 10, 11, 12 and 13mm. **(USA)**

No. 322SC086 ..... **$114.75**

6 Point 3/8" Drive Fractional/Metric Socket Set - 21 pcs

New!

Includes: Ratchet; Adapter; 1.5" & 3" Extensions; (7) Fractional Sockets: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, and 3/4"; (10) Metric Sockets: 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19mm. **(USA)**

No. 322WR292 ..... **$241.22**

Hex Driver Sets

1/4" Drive Fractional Hex Driver Set - 11 pcs

Includes: (11) Fractional Hex Drivers: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, and 5/16". **(USA)**

No. 322SC016 ..... **$114.25**

1/4" Drive Metric Hex Driver Set - 7 pcs

Includes: (7) Metric Hex Drivers: 2, 2.5, 3, 4, 5, 6 and 8mm. **(USA)**

No. 322SC017 ..... **$73.75**

6 Point Fractional Socket Set - 27 pcs

Includes: (1) 7.5" Pro Ratchet; (1) 9.5" Flex Handle; (3) Extensions: 3", 6", 12"; (7) Standard Socket: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"; (7) Deep Socket: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"; (7) Flex Sockets: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"; (1) Spark Plug Socket: 5/8".

No. 690SC945 ..... **$126.65**

New!

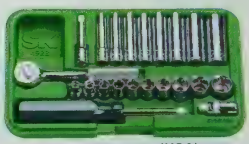
1/4" Drive Fractional/Metric Standard and Deep Socket Set - 44 pc

It contains an assortment of the most popular fractional and metric sockets, in both standard and deep lengths, a 1/4" Drive Pro Ratchet, and 3" and 6" 1/4" drive extensions. **Includes:** (1) Drive Ratchet; (1) 3" Extension; (1) 6" Extension; (10) Standard Fractional Sockets: 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16; (8) Deep Fractional Sockets: 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16; (13) Standard Metric Sockets: 4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm; (10) Deep Metric Sockets: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm. ***Lifetime Warranty.*** **(USA)**

No. 690SC844 ..... **$103.90**

New!

1/4" Drive Socket Sets - 21 pcs



Designed with a high polish SuperKrome® finish to protect the tool from the harsh working environments. The SureGrip® hex drives the side of the hex, not the corner. The side drive provides a "sure grip" on the fastener and avoids edge breakage of the hex. ***Lifetime Warranty.*** **(USA)**

Fractional Socket Set Includes: (1) 1/4" Drive 4.5" Pro Ratchet; (1) 6" Extension Spinner Handle; (1) 2" Extension; (10) Standard Fractional Sockets: 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16; (8) Deep Fractional Sockets:1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16.

No. 690SC492 ..... **$55.90**

Metric Socket Set Includes: (1) 1/4" Drive 4.5" Pro Ratchet; (1) 6" Extension Spinner Handle; (1) 2" Extension; (10) Standard Metric Sockets: 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13mm; (8) Deep Metric Sockets: 6, 7, 8, 9, 10, 11, 12, 13mm.

No. 690SC132 ..... **$55.90**

Ratchets

1/4" Drive & Thumbwheel Ratchet Set - 4 pc

Chrome set features 2", 3" and 6" extensions plus a thumbwheel ratchet. *Lifetime Warranty.* **(USA)**

No. 690PR940 ..... **$32.80**

Thumbwheel Ratchet

Allows you to work in very confined spaces when the use of a regular-size ratchet is not ideal. **(USA)**

No. 690PR172 3/8"..... **$19.30**

No. 690PR270 1/4"..... **$19.55**

1/4" Professional Ratchet

Chrome, reversible ratchet. 1" width. 6-1/2" OAL. **(USA)**

No. 690PR971 ..... **$29.85**

1/4" Drive Locking Extension Set - 3 pc

Features a SureGrip® lock which holds the socket on the extension. Includes 3", 7" and 15" extensions.

No. 690PR941 ..... **$62.75**

Eliminator™ Combintion Inch/metric Set Rachet System - 19 pc

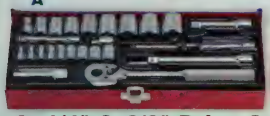
Works in places ordinary ratchets can't reach. Since bolts pass through the head, you can get to nut, or over any length bolt - without going back for a deep socket or open-end wrench. Every socket is color coded so you can tell at a glance if it's inch (red) or Metric (Blue). (USA)

Contains: 3/8' Eliminator™ ratchet: 7 fractional sockets: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 10 metric sockets: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm ratchet adapter; metal case.

No. 322PR090 ..... **$199.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

A



B

C

D

A. 1/4" & 3/8" Drive Socket Set - 26 pc

1/4" Drive includes: Nine 6 pt. Sockets (3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"); 3" extension & spinner. 3/8" Drive includes: Nine 12 pt. sockets: (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"); 3" & 6" extensions; 5/8" spark plug socket; Adapter 3/8" F x 1/4" M; Ratchet; & Metal Box. **(USA)**

No. 868WR033 ..... **$60.80**

B. 3/8" Drive Set Socket Wrench - 29 pc

Meets *USAF & USN* ***AS-954*** specifications for aircraft and drive tools. **Contains:** 12 pt. standard sockets: (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"); 12 pt. deep sockets: (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"); Ratchet; 3" & 5" Extensions; Flex Handle; Universal; Metal Box. ***Lifetime Guarantee.*** **(USA)**

No. 868WR340 ..... **$233.50**

C. 1/4" Drive Socket Set - 14 pc

Contains: 6 pt. sockets: (3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"); 3" and 6" extensions; Ratchet; Spinner Handle; Metal box. **(USA)**

No. 332WR106 ..... **$23.85**

D. 3/8" Drive Socket Set - 22 pc

Contains: Complete set with regular and deep sockets, nine 12 pt. standard sockets: (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"); eight 12 pt. deep sockets: (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16"); 5/8" spark plug socket: two extensions: (3" & 6"); ratchet & metal box. **(USA)**

No. 868WR034 ..... **$55.30**

3/8" Drive Socket Set - 30 pc

Contains: 6 pt. standard sockets: (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"); 6 pt. deep sockets: (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"); 6 pt. Std. sockets: (12mm, 13mm, 14mm, 15mm, 17mm, 19mm); 6 pt. deep sockets: (12mm, 13mm, 14mm, 15mm, 17mm, 19mm); 5/8" Spark plug socket;7-1/2" Ratchet; 3" and 6" extensions; Metal tool box. **(USA)**

No. 690WR010 ..... **$160.60**

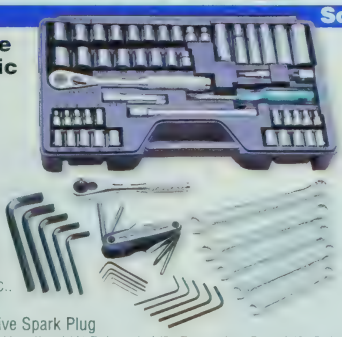
1/4" Drive Socket Set - 32 pc

Contains: 6 pt. standard sockets: (1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"); 6 pt. deep sockets: (1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"); 6 pt. std. sockets: (6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm); 6 pt. Deep Sockets: (6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm); 4-1/2" Ratchet; 2" and 6" extension; 6" Spinner handle; Metal tool box. **(USA)**

No. 690WR012 ..... **$145.95**

Socket Sets

1/4" & 3/8" Drive Fractional/Metric Set - 72 pc



Set includes: 1/4" & 3/8" Drive Teardrop Ratchets; 10 pc., six pt., 1/4" Std. Sockets (5/32"-1/2"); 10 pc., six pt., 1/4" Std. Sockets (4-13mm); Eight pc., 12 pt., 3/8" Std. Sockets (3/8"- 13/16"); 10 pc., 12 pt., 3/8" Std. Sockets (9-19mm); Five pc., 12 pt., 3/8" Deep Sockets (3/8"-3/4"); Six pt., 3/8" Drive Spark Plug Socket; 1/4" Drive Spinner Handle; 1/4" Drive, 1-1/2" Extension Bar; 3/8" Drive 3" & 6" Extension Bars; 3/8" Drive to 1/4" Reducing Adapter; Six pc. Duracast Hex Key/Screwdriver Set; Five pc. Combination Wrenches (5/16"-9/16"); and 15 pc. Hex Key Set (.028"-3/8"). **(USA)**

No. 322SC138 ..... **$240.95**

1/4" and 3/8" Drive Socket Set - 85 pc

Set includes: 1/4" & 3/8" Round Head Ratchets; 10 pc., six pt., 1/4" Std. Sockets (5/32"-1/2"); 10 pc., six pt., 1/4" Std. Sockets (4-13mm); Eight pc., 12 pt., 3/8" Std. Sockets (3/8"-13/16"); 10 pc., 12 pt., 3/8" Std. Sockets (10-19mm); Eight pc., six pt. 1/4" Deep Sockets (3/16"-7/16"); Five pc., six pt., 1/4" Deep Sockets (6-10mm); Nine pc., 12 pt. 3/8" Deep Sockets (3/8"- 7/8"); 10 pc., 12 pt. 3/8" Deep Sockets (10-19mm); Six pt., 3/8" Drive 5/8" Spark Plug Socket; Six pt., 3/8" Drive 13/16" Spark Plug Socket; 1/4" Drive Spinner Handle; 3/8" Drive to 1/4" Reducing Adapter; 1/4" & 3/8" Drive 3" Extension Bars; Seven Short Arm Hex Keys (5/64"- 1/4"). **(USA)**

No. 322SC144 ..... **$177.40**

1/4", 3/8" and 1/2" Drive Set - 107 pc

Includes: 1/4", 3/8" & 1/2" Round Head Ratchets; 10 pc., six pt., 1/4" Std. Sockets (5/32"-1/2"); 10 pc., six pt., 1/4" Std. Sockets (4-13mm); Eight pc., 12 pt., 3/8" Std. Sockets (3/8"-13/16"); 10 pc., 12 pt., 3/8" Std. Sockets (10-19mm); Eight pc., 12 pt. 1/2" Std. Sockets (1/2"-15/16"); Five pc., 12 pt. 1/2" Std. Sockets (18-22mm); Eight pc. six pt. 1/4" Deep Sockets (3/16"-7/16"); Eight pc., six pt. 1/4" Deep Sockets (4-11mm); Nine pc., 12 pt. 3/8" Deep Sockets (3/8"-7/8"); 10 pc., 12 pt. 3/8" Deep Sockets (10-19mm); Four pc., 12 pt. 1/2" Deep Sockets (1/2"-11/16"); Six pt 3/8" Drive 5/8" Spark Plug Socket; Six pt., 3/8" Drive 13/16" Spark Plug Socket 1/4" Drive Spinner Handle; 3/8" Drive to 1/4" Reducing Adapter; 1/4", 3/8" & 1/2" Drive 3" Extension Bars; Seven Short Arm Hex Keys (5/64"-1/4"). **(USA)**

No. 322SC222 ..... **$244.90**

Metric & Inch Field Service Ratchet Set - 50 pc

Kit includes: Nine 6 pt. Standard Sockets 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"; Nine 6 pt. Metric Sockets: 4, 5, 5.5, 6, 7, 8, 9, 10, 11 mm; Ratchet; 2 Extension Bar, 6" Spinner Handle; 3/8 Drive: Ten 6 pt. Standard Sockets 5/16", 3/8", 7/16", 1/2", 9/16", 5/8, 11/16", 3/4", 13/16", 7/8"; Twelve 6 pt. Metric Sockets: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm; Four-12 pt. Standard Deep Sockets: 3/8", 7/16", 1/2", 9/16"; Ratchet; 3" Extension Bar, 5/8" Spark Plug Socket. **(USA)**

No. 668WR750 ..... **$67.75**

Wright Open-End Wrench Set - 8 pc

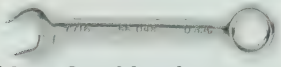
Includes one each: 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16", 3/4" x 13/16", 7/8" x 15/16", 1" x 1-1/16", 1-1/8" x 1-1/4" and Denim Tool Roll. **(USA)**
No. 868WR738 ..... **$132.25**

Metric Combination Wrench Set - 15 pc

12 Pt. metric wrench kit includes: 7mm; 8mm; 9mm; 10mm; 11mm; 12mm; 13mm; 14mm; 15mm; 16mm; 17mm; 18mm; 19mm; 21mm; 22mm; plus pouch. **(USA)**
No. 322PR016 ..... **$131.15**

Metric Midget Combination Wrench Set - 10 pc

6 Pt. Midget Combo Wrench: 4.5mm x 4mm; 4mm x 4.5mm; 12 Pt. Midget Combo Wrench: 5mm x 5.5mm; 5mm x 6mm; 5.5mm x 6mm; 6mm x 7mm; 7mm x 8mm; 8mm x 9mm; 9mm x 10mm; 10mm x 11mm; plus pouch. **(USA)**
No. 322WR166 ..... **$31.50**

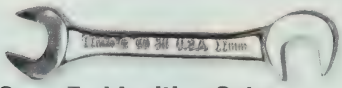


Midget Combinations Wrench Set - 10 pc

Sizes: 5/32", 3/16", 13/64", 7/32", 15/64", 1/4", 9/32", 5/16", 3/8", 7/16", in a pouch. **(USA)**
No. 322SC025 ..... **$32.95**

Miniature Angle Wrench Set - 14 pc

Miniature 15° and 80° angle wrenches and ignition pliers in a vinyl roll-up case. **Includes**: Wrenches (13): 13/64", 3/16", 7/32", 15/64", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8"; Pliers (1): Pliers-T & G, 5" ignition. **(USA)**
No. 758WR000 ..... **$146.75**



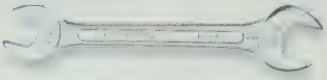
Open End Ignition Sets

Metric Wrench Set - 8 pc
Wrenches have 15° angle on one end and an 80° angle on the other end. Both ends same size opening. Sizes: 4-5; 4.5-5.5; 5-6; 6-7; 7-8; 8-9; 9-10; 10-11mm. Pouch **(USA)**
No. 322WR120 ..... **$31.00**

Inch Wrench Set - 8 pc
Forged, heat treated, chrome plated. 15° angle heads on one end and 80° angle on the other end. Sizes: 7/32", 15/64", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16". Pouch. **(USA)**
No. 322WR122 ..... **$15.95**

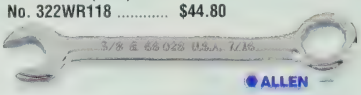
Combination Inch Set - 9 pc

Contains: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4". Plastic Rack. **(USA)**
No. 322WR134 .... **$74.60**



Metric Set - 6 pc

Sizes: 6mm x 8mm, 7mm x 9mm, 10mm x 11mm, 12mm x 14mm, 13mm x 15mm, 17mm x 19mm. Roll Pouch. **(USA)**
No. 322WR118 ..... **$44.80**

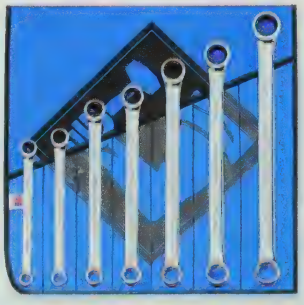


Midget Wrench Set - 10 pc

Contains 12 point openings, and one box end head. Sizes: 5/32" x 3/16", 3/16" x 5/32",13/64" x 7/32", 7/32" x 15/64", 15/64" x 1/4", 1/4" x 9/32", 9/32" x 5/16", 5/16" x 11/32", 11/32" x 3/8", 3/8" x 7/16", in a pouch. **(USA)**
No. 322WR132 ..... **$32.90**

Fractional/Metric Full Polish Wrench Set - 18 pc

Set includes: Nine pc, 12 pt Combo Wrenches (1/4"-3/4"); Nine pc, 12 pt Combo wrenches (10-18mm); Full polish finish. **(USA)**
No. 322SC020 ..... **$191.95**



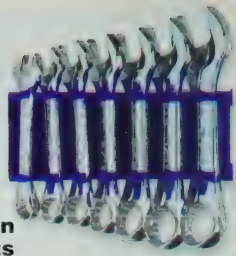
GearedBox Wrench

The small head design of the Geared Box Wrench allows you easy access into tight areas, and the 72 tooth ratcheting action allows the wrench to be turned easily while working in tight areas. Has all steel construction and is forged and heat treated using high alloy, U.S. produced steel. ***Lifetime Warranty.*** **(USA)**

Fractional Geared Wrench Set - 7 pc
Includes: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", and 3/4".
No. 322SC037 ..... **$176.70**

Metric Geared Box Wrench Set - 10 pc
Includes: 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19mm.
No. 322SC038 ..... **$271.45**

Combination Fractional/Metric Geared Box Wrench Set - 17 pc
Includes: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, and 3/4"; 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19mm.
No. 322SC039 ..... **$441.25**



New!

Full Polish Short Combination Wrench Sets

These sets contain an assortment of the most popular fractional and metric wrenches in strong, flexible locking wrench racks for secure storage. Feature high polish SuperKrome® finish, and SureGrip® hex design. ***Lifetime Warranty.*** **(USA)**

Fractional and Metric Short Pattern Combination Wrench Set - 20 pcs
Includes: (10) Fractional Wrenches: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16; (10) Metric Wrenches: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm.
No. 690SC250 ..... **$111.90**

Fractional Short Pattern Combination Wrench Set - 7 pcs
Includes: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4.
No. 690SC862 ..... **$35.60**

Metric Short Pattern Combination Wrench Set - 7 pcs
Includes: 10, 12, 13, 15, 15, 17, 18mm.
No. 690SC247 ..... **$35.60**

Fractional and Metric Combination Wrench Set - 18 pcs
Includes: (9) metric wrenches: 10, 11, 12, 13, 14, 15, 16, 17, 18mm; (9) fractional wrenches: 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4.
No. 690SC018 ..... **$103.90**

Hex Sets

Hex Metric Set - 9 pc

Includes: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm. **(USA)**
No. 204SC184 ..... **$8.15**

Hex Inch Set - 13 pc

Includes: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/36", 3/4", 5/16", and 3/8". **(USA)**
No. 204SC231 ..... **$8.55**

Hex L-Wrench Inch/Metric Set - 22 pc

Includes: (9 pc - Metric) 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10mm; (13 pc - Inch).050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/36", 3/4", 5/16", and 3/8". **(USA)**
No. 204SC199 ..... **$16.20**

Metric Ballpoint Set 9 pc

Includes: 2, 2.5, 3, 4, 5, 6, 8, 10mm and stand.. **(USA)**
No. 204SC131 ..... **$38.00**
Balldriver® T-Handle Stand - Metric
No. 204SO935 ..... **$4.00**

Inch Ballpoint Set - 11 pc

Includes: 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8" and stand. **(USA)**
No. 204SC190 ..... **$45.70**
Balldriver® T-Handle Stand - Inch
No. 204SO936 ..... **$4.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

TEC-TUFF Wrench Sets

Ballpoint L-Wrenches

Each wrench slips easily into a marked slot & locks securely into place. Each is two tools in one: ball end provides the convenience & speed of off-axis rotation; the long-arm provides the leverage for full torque.

Inch Size Sets

No. 204SC048 (12 pc.) .050" - 5/16" **$11.40**
No. 204SC052 (7 pc.) 5/64" - 3/16" **$7.25**
No. 204SC192 (13 pc.) .050" - 3/8"..... **$14.60**

Metric Sizes Sets

No. 204SC054 (9 pc.) 1.5mm - 10mm .. **$11.85**
No. 204SC050 (6 pc.) 1.5mm - 5mm..... **$6.35**

Chamfered L-Wrenches

Inch Size Sets

No. 204SC182 (12 pc.) .050" - 5/16" **$6.75**
No. 204SC145 (7 pc.) 5/64" - 3/16" **$4.10**

Metric Sizes Sets

No. 204SC1466 (6 pc.) 1.5mm - 5mm..... **$4.80**
No. 204SC184 (9 pc.) 1.5mm - 10mm..... **$8.15**

Hex Key Sets

Hex Keys, set screw wrenches, are made of alloy steel and black oxide treated to resist rust. With storage pouches. **(USA)**

Short Arm Inch Set - 15 pc
Nominal Size Across Flats: .028", .035", .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8".
No. 692WR036 ..... **$9.95**

Short Arm Metric Set - 12 pc
Nominal Size Across Flats mm: 0.7, 0.9, 1.3, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0.
No. 692WR040 ..... **$9.95**

Long Arm Inch Sets - 13 pc
Nominal Size Across Flats: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8".
No. 692WR060 ..... **$10.25**
No. 204SC194 1/16" thru 1/4"-10 pc set.... **$8.90**
No. 204SC196 .050" thru 5/32"-8 pc set.... **$6.45**

Torx Set - 6 pc.
Includes: T15, T20, T25, T30, T35, T40.
No. 873SC967 ..... **$39.95**

Eklind

T-Handle Hex Key Sets

Long-reach design with loop handle for greater torque and ease-of-use. Made of quality chrome nickel alloy steel– drawn for closest tolerance.

Set With Stand - 10 pc
3/32" to 3/8", 9" OAL
No. 332SC020.... **$35.20**

Bondhus

T-Handle Longstyle Hex & Balldriver Assortment

Inch Set - 10 pc Sizes: Hex: 3/32", 7/64", 1/8", 9/64"; Balldriver: 5/32", 3/16", 7/32", 1/4", 5/16", 3/8".
No. 204SC062 ..... **$42.70**

Metric Set - 7 pc Sizes: Hex: 2.5mm, 3mm; Balldriver: 4mm, 5mm, 6mm, 8mm, 10mm.
No. 204SC070 ..... **$35.00**

GorillaGrip™Fold Up Hex Sets

GorillaGrip™ features a 8650 industrial strength nickel chrome moly tool steel with tool ends chamfered to fit screws. Each blade you select rotates independently. Space-age composite handle is "stronger than steel." Color coded for easy identification: inch-yellow, metric-red, torx-green, inch and metric-orange.

Inch Hex Set

9 Keys/Inch Sizes: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4".
No. 204SC589 ..... **$6.50**
9 Keys/Inch Sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16".
No. 204SC591 ..... **$5.10**

Inch/Metric Hex Set

12 Keys/6 Metric, 6 Inch Sizes: 1.5, 2, 2.5, 3, 4, 5mm, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32".
No. 204SC550 ..... **$7.50**

Metric Hex Set

7 Keys/Metric Sizes: 1.5, 2, 2.5, 3, 4, 5, 6mm.
No. 204SC592 ..... **$5.30**
6 Keys/Metric Sizes: 3, 4, 5, 6, 8, 10mm.
No. 204SC595 ..... **$9.80**

Torx Hex Set

8 Keys/Torx Sizes: T6, T7, T8, T9, T10, T15, T20, T25.
No. 204SC126 ..... **$10.80**

6-in-1 Fold-Up Screwdriver Set

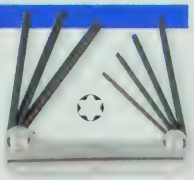
Blades fold up like a pocket knife into a solid metal case. Bit size Types: 1/8", 3/16", 1/4" flat blade, T-15 Star Torx, #1 Phillips 3/16", Hole punch awl. 3.63" Handle.
No. 332SC016 ..... **$6.85**

Key Sets

Torx® Fold-Up Key Wrench Set - 7 pc

3" Handle Length T-6, T-7, T-8, T-9, T-10, T-15, T-20.
No. 332T0773..... **$11.00**

4-1/4" Handle T-10, T-15, T-20, T-25, T-27, T-30, T-40.
No. 332T0007..... **$11.00**



Mini Torx® L-Key Set - 7 pc

These Short Arm Torx® L-Keys are made of hardened chrome-vanadium-molybdenum steel. Black finish. Sizes: T6, T7, T8, T9, T10, T15, T20. Includes plastic key holder. (Germany)
No. 204WR392 .... **$13.20**

Hex-Spline Socketscrew Wrench Set - 12 pc

A complete wrench kit for both hex and spline type screws used in the electronics field. Will fit No. 2 to 3/8" screws. Key sizes: .050, .062, .071, .094, .125, .156, .069, .060, .076, .094, .110, .144.
No. 338SC014..... **$8.90**

Torx® Key Wrench Set - 9 pc

Key sizes: T-10, T-15, T-20, T-25, T-27, T-30, T-40, T-45, T-50.
No. 840T0076 ..... **$16.95**

Bondhus Balldriver™ Hex Tools

Balldriver Hex Tools

Bondhus ballpoint hex-tools for hand or power applications. Screws tightened or loosened at angles up to 25°. Full 360° turning.

Balldriver Hex Tool (Inch Sizes) Sets

No. 204SC146 .050 - 3/8" 13 pc set **$41.95**
No. 204SC152 5/64" - 3/16" 7 pc set **$17.30**
No. 204SC142 5/64" - 3/8" 11 pc set **$46.00**

Balldriver Hex Tools (Metric Sizes)

No. 204SC156 2-10mm 8 pc set **$37.65**
No. 204SC158 1.5-10mm 9 pc set **$33.00**
No. 204SC150 1.5-5mm 6 pc set..... **$15.00**

Open Stock Ball Drivers

Inch Sizes			
TT No.	Size	Blade Length	PRICE
204SC060	.050"	3.2"	$2.00
204SC114	5/64"	3.5"	$2.40
204SC092	3/32"	3.7"	$2.45
204SC128	7/64"	2.9"	$2.50
204SC134	9/64"	3.3"	$2.75
204SC112	5/32"	3.5"	$2.95
204SC088	3/16"	3.8"	$3.90

Longer Length Inch			
TT No.	Size	Blade Length	PRICE
204SC116	5/64"L	5"	$2.75
204SC094	3/32"L	5.5"	$2.80
204SC095	7/64"L	6"	$3.35
204SC078	1/8"L	6.5"	$3.40
204SC136	9/64"L	7"	$3.65
204SC090	3/16"L	8"	$4.85

The Ultimate Compact Tools!

Leatherman® Pocket Survival™ Tool

Unique "fan handle" pliers are full size, full strength, all parts interconnected. **Includes**: Needlenose pliers, regular pliers, wire cutter, hard wire cutters, clip-point knife blade. 8"/20cm.. ruler. can/bottle opener, large screwdriver, small screwdriver, phillips screwdriver, medium screwdriver, metal/wood file/saw, and awl/punch. 4" closed. Includes leather pouch.
25-Year Guarantee! **(USA)**
No. 506PR100 Stainless Steel..... **$48.00**
No. 506AC022 Leather Sheath **$7.45**

Less Than 2-3/4" Closed!

Leatherman® Micra®

It's scissors. It's 10 tools in one! Made of 100% stainless steel, this handy tool includes: tweezers, flat phillips screwdriver, small screwdriver, bottle opener, scissors, knife, medium screwdriver, nail file/cleaner, ruler, and lanyard attachment.
25-Year Guarantee! **(USA)**
No. 506PR234 ..... **$24.55**

Leatherman Pulse™

New!

The Pulse is designed for better comfort, with all locking blades and rounded handles. Unlocking the blades is a snap with lock releases on the outside of the handles. Just use your thumb to slide back the lock release. **Features**: regular pliers; needle nose pliers; wire cutters; hard-wire cutters; drop-point knife; scissors; diamond-coated file; cross-cut file; sharpening groove; extra-small screwdriver; medium screwdriver; large screwdriver; Phillips screwdriver; can/bottle opener; lanyard attachment; 8"/20 cm ruler. **(USA)**
No. 506PR690..... **$59.40**

Leatherman Flair®

New!

The Flair introduces a new feature ... a corkscrew. it's the first of its kind on a multi-purpose tool or knife. Plus, a spreader knife and cocktail fork make this a great tool to have for lunch on the go. Add a needlenose plier, regular pliers, wire cutters, hard-wire cutters, straight/serrated knife. scissors. can opener. bottle opener, extra-small screwdriver. medium screwdriver. large screwdriver, Phillips screwdriver. ruler (8"), and lanyard attachment making this a versatile tool for all your needs. ***25-Year Guarantee!*** **(USA)**
No. 506PR501 ..... **$57.75**

Only 2-5/8" Closed!

Leatherman® Mini-Tool

The world's most compact FULL SIZE pliers. For pocket, purse, or belt, the *Mini-Tool™* folds incredibly small just 2-5/8W" x 1H" x 1/2"D. Yet in seconds the *Mini-Tool™* becomes a full size, full strength pliers, over six inches long. "Compound-folding" handles provide comfortable grip, compact size. All parts interconnected. Includes: needlenose pliers, regular pliers, wire cutter, hard wire cutter, knife blade, ruler inch/metric, can opener, bottle opener, 1/4" tip screwdriver, hard wire cutter and metal/wood file. ***25-Year Guarantee!*** **(USA)**
No. 506PR300 Stainless Steel..... **$36.70**
No. 506PR001 Black Oxide Finish.... **$41.90**

Leatherman® Super Tool®

With an innovative blade-locking feature designed to prevent tools from folding during use. Includes: Needlenose pliers, regular pliers, wire cutter, hard-wire cutters, clip-point knife, serrated knife, wood/bone saw, metal/wood file, 9"/22cm. ruler, can/bottle opener; small, medium and large screwdriver; phillips screwdriver, electrical crimper, wire stripper, hard wire cutter and awl/punch. Includes belt sheath. ***25-Year Guarantee!*** **(USA)**
No. 506PR450 Stainless Steel **$64.15**
No. 506PR630 Black Oxide Finish.... **$67.65**

Leatherman® Tool Adapter™

Makes the PST II®, Pocket Survival Tool™, the Flare and Supertool even more versatile. Standard 1/4" drive locks in three positions. The Tool Adapter™ comes with our Standard Kit that contains a belt sheath and six bits: #0 and #3 Phillips, #1 and #2 Robertson (square), #15 Torx® and #8-10 Slotted. Made of 100% stainless steel. 3-1/4" OAL. ***25-Year Guarantee!*** **(USA)**
No. 506PR650 ..... **$22.10**

Kershaw Adjustable Jaw Multi-Tool

Features: 440A stainless steel, locking drop point, serrated 3" blade; 2-1/2" replaceable steel hacksaw blade; 2-1/4" two-sided file; 1-1/2" slotted screwdriver; 1-7/8" Phillips screwdriver; can/bottle opener; leaf spring lock for one-handed closing; knife with thumb stud for one-handed opening; locking latch; wire cutters; needle nose pliers head; ruler; and stainless steel handles. Includes a black Sheath. 6-3/4" OAL closed. **(USA)**
No. 487PR100 ..... **$89.00**

Tec-Tuff™ Survival Kit In a Pouch

Let this kit help you survive almost any emergency repair situation... in the office, shop or in the field. The rugged pouch is 100% woven ballistic nylon utility pouch fits conveniently on your belt holding a double-A mini MagLite™ with batteries and Leatherman Pocket Survival™ Tool that is 19-tools-in-one! **(USA)**
No. 758TT005..... **$69.95**

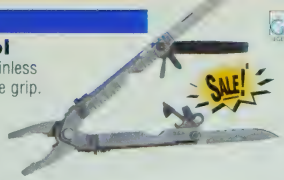
Tec-Tuff® Tool Kit In a Pouch

Let this kit help you survive almost any emergency repair situation... in the office, shop or in the field. The rugged pouch is 100% woven ballistic nylon utility pouch fits conveniently on your belt holding a double-A mini MagLite™ with batteries and Crescent Toolzall that is 15-tools-in-one! **(USA)**
No. 758TT021 ..... **$79.95**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Gerber

Multi-Plier® Pocket Tool



Opens easily with one hand. 100% Stainless Steel. Rounded edges for a comfortable grip. Thirteen features include: pliers, wire cutters, serrated sheepsfoot blade, file, crosshead screwdriver, bottle opener, medium screwdriver, large screw-driver, can opener, small screwdriver, drop point blade, lanyard and a scale. Wt.: 8 oz., 4-1/2" OAL closed, 6" OAL open.Includes ballistic cloth sheath. **(USA)** Blunt Nose–Silver.

No. 403PL800 ~~$41.35~~ ..... ***SALE $29.90***

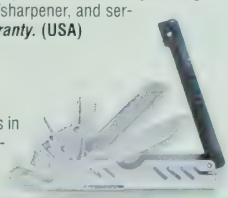
On sale now: while supplies last!

Multi-Lock Scout

This one-handed needle-nose pliers jaw opens with a flick of a wrist and locks tight. The unique spacer rings allow each component to rotate easily and independently of each other. SAF.T.PLUS system locks each tool in position, until manually released. **Features**: needle-nose pliers, wire cutters, crimper, standard/metric scale, bottle/can opener, Awl/Punch, large & medium screwdrivers, Phillips screwdriver, lanyard ring, Precision Fiskar® scissors, carbide coated file/sharpener, and serrated drop point blade. ***Limited Lifetime Warranty.*** **(USA)**

No. 692PR542 ..... **$55.70**

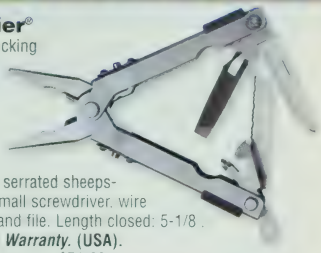
Multi-Lite™



Your lightweight multi-tool has eight locking tools in one. It includes a handy storage component, scissors and an amber emergency light. **(USA).**

No. 692PR200 ..... **$39.60**

Multi-Lock™ Multi-Plier®



Seventeen features including 10 locking components and a dual-locking jaw. Stainless steel construction and one-handed opening. **Includes**: pliers, large screwdriver, bottle opener, lanyard ring, lockback safety bar, drop-point blade, Phillips™ screwdriver, serrated sheepsfoot blade, medium screwdriver, small screwdriver, wire cutter, can opener, scale, crimper and file. Length closed: 5-1/8", sheath included. ***Limited Lifetime Warranty.*** **(USA).**

No. 403PR530 Needle Nose **$51.20**

No. 692PR500 Blunt Nose (Not Shown).... **$51.20**

Multi-Plier® 400 Series w/ Tool Kit

The Multi-Plier® 400 series has 3/4 size handles and plier jaws that is light weight and compact. **Features**: needle-nose pliers, wire cutters, crimper, serrated drop point blade, medium screwdriver / bottle opener, crosshead screwdriver, Fiskars scissors, large screwdriver, small screwdriver, and can opener. Length open: 5.75". 6 piece tool kit includes: 3 flat head, and 3 crosshead hex bits. ***Limited Lifetime Warranty.*** **(USA)**

No. 692PL510 ..... **$47.35**

Crescent® ToolZall™

ToolZall™ Maintenance Pro Multipurpose Tool

Crescent

This 8-in-1 tool has a versatile selection of tools specifically chosen for maintenance personnel, the most convenient tool you can own. **Includes**: spring loaded heavy duty shears with 2" blade and safety closure latch; serrated drop point knife blade; double bias-cut saw blade; 9" English and 22cm metric ruler; medium slotted screwdriver; double-cut wood and single-cut metal files. **(USA)**

No. 272PR270..... **$58.90**

ToolZall Technician Multipurpose Tool

Crescent

The essential tool for the worker who is working against the clock. This stainless steel 16 in 1 tool combination gets the job done quick and right. **Features**: wire stripper (20-10awg); needle nose pliers; wire cutter; 3 flat head screwdrivers; wire bender; Phillips screwdriver; awl; English and metric rulers; can opener and bottle opener; metal and wood files; serrated drop point knife. **(USA)**

No. 272PL252..... **$44.95**

ToolZall™ Pro™ XL

Crescent

15 tools included in the ToolZall™ Pro XL: large plier head; wire cutter and crimper; knife blade; large, medium and small screwdriver; No. 1 Phillips screwdriver blade; awl; lanyard; saw; can/bottle opener; metal/wood file; US/ metric measures; and sheath. **(USA)**

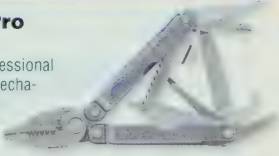
No. 272PL206 (TZ3) **$65.90**

Adapter Kit

Quickly convert the Phillips® driver on both a ToolZal Pro, and ToolZal® Pro XL into six additional drivers in just a snap. The kit includes a special adapter with six driver bits, and a special two-pouch ballistic nylon sheath.

No. 272PR022 ..... **$19.30**

ToolZall™ Electricians Pro Multipurpose Tool



This 21-function tool is designed for professional electricians. Features the Positive Lock mechanism that secures tool components, such as a screwdriver or knife blade, safely in the open position until a release button is pressed, allowing the component to be folded back into the body of the tool. **Includes**: 20 to 10AWG wire stripper; needle-nose plier; wire cutter; wire bender; serrated drop point knife blade; double-cut wood file and single cut metal file; Medium and large flat head screwdrivers; lanyard ring; double Blas-Cut saw blade; #2 Phillips® screwdriver; Can/Bottle opener; 8" English and 19cm metric ruler. **(USA)**

No. 272PR244..... **$58.95**

ToolZall™

Your ToolZall™ combines 13 popular tools made from stainless steel, has comfort grip handles and adjustable/replaceable components. **Includes**: needle-nose pliers with wire cutter; three flat head screwdrivers; Phillips™ screwdriver blade; US/metric ruler; awl; can/bottle opener; metal/wood file; knife; and ballistic sheath. ***Limited Lifetime Warranty*** **USA.**

No. 272PL207 (TZ1D)..... **$45.70**

ToolZall™ Pro™

The *ToolZall Pro* provides: needle-nose/regular pliers; a wire cutter; two flat-head screwdrivers, a Phillips screwdriver; a drop-point blade; a serrated, sheepfoot blade; a metric/english ruler; a lanyard ring; a can/bottle opener; a metal/wood file; and a ballistic sheath. ***Limited Lifetime Warranty.*** **(USA)**

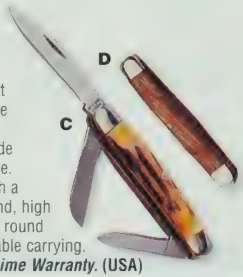
No. 272PL200 ..... **$52.00**

Bear MGC Lockback Pocketknife

Ideal for workmen, this pocketknife is designed to be use with one hand, and features a rust resistant, high carbon 440 steel, hollow ground blade. Built with a tough lightweight and durable Zytel® handle with an insert manufactured with Kraton® Polymer. Includes a stainless steel belt clip. ***Lifetime Warranty.*** **(USA)**

Serrated Blade. One hand opener. 4-1/2" Closed Length
A. No. 179PR401 ..... **$25.80**
High Tech Lockback with satin finish nickel silver bolster and Kraton® insert.
B. No. 179PR405 3-3/4" Closed Length **$21.00**

Popular Stockman Knives



The provided stockman three blades help you to get the job done. Blades include a clip masterblade, fine-edged spey sheepsfoot blade and sturdy sheepsfoot blade. All blades are designed with a rust resistant, hollow ground, high carbon 440 steel, and have round bolster handle for comfortable carrying. 3-1/4" Closed Length. ***Lifetime Warranty.*** **(USA)**

C. No. 179PR518 Genuine India Stag Horn Handle .. **$27.60**
D. No. 179PR218 Oak Handle **$20.40**

Professional Lockback Knives

Folding lockback knife with Zytel® inter frame to reduce slippage when your hands are greasy or oily. Encapsulated in a knife handle is Kraton® polymer. Blade is serrated and made of 5/32" rust resistant, hollow ground, high carbon 440 steel. ***Lifetime Warranty.*** **(USA)**

K. No. 179PR460 5-1/8" Closed Length with ballistic sheath. **$30.00**
Satin finished nickel silver bolster handle. 3" Closed Length.
L. No. 179PR425 ..... **$19.80**

Executive Lockbacks Pocketknives

Executive Lockbacks Pocketknives are versatile and tough for any job. The contour folding design is made to fit your hand comfortably, and features a high carbon 440 steel, Kapton drop point, rust resistant, hollow ground blade. 3" Closed Length. ***Lifetime Warranty.*** **(USA)**

Stag Bone Handle
F. No. 179PR625 ..... **$24.60**
Laminated Oak Handle
G. No. 179PR225 ..... **$19.80**
Laminated Zebra Wood handle.
H. No. 179PR226 ..... **$19.80**

A. Gerber Gator®

The Gator® features top quality steel in a clip point, half-serrated blade. Includes ballistic cloth sheath for belt carry.

No. 692PR079 5" w/sheath *(Shown)* **$33.80**
No. 692PR151 4-1/8" w/sheath **$27.25**
Gerber E-Z Out™ Jr Serrated
No. 692PR655 3-1/8" (No Sheath) **$24.00**

B. Wrangler Lock Backs

The is a taper ground, droppoint blade opens and closes with a minimum of effort. Teflon® washers will keep its action smooth for the life of the knife. A heavily-checkered handle provides comfort and steady grip to make your work easier. Blade: 2-3/4"L; 6-1/4" OAL.
No. 255PR401 ..... **$19.95**

C. The K.I.S.S. Knife

Compact, palm-size folding knife is compact and convenient. The blade and frame are precision-fine blanked stainless steel with superior fit and smooth operation. The secure, safe and strong blade lock serves not only as part of the frame but also as the handle itself. A thumb stud is used to one-hand open the blade, and as the blade is fully-rotated open, the Frame Lock snaps crisply in behind the blade to guarantee a sound lock-up. **Specs:** Blade: Tanto, Chisel-Point Ground; Blade Length: 2-1/4"; 3-1/2" OAL.
No. 255PR5500 ..... **$39.95**

D. Colonial Lock-Blade Knives

Features a stainless steel blade that is hand sharpened and has an ultra-honed edge with a durable handle with brass plated caps. Includes a sheath. **(USA)**

No. 255PR085 3" Closed **$12.70**
No. 255PR095 4" Closed **$17.75**
No. 490TE044 5" Closed **$32.50**

E. SOG Auto Clip®

This 2.6 oz. Stainless Steel, 3.6" blade knife has a hardness of Rc 56-57. **Features**: easy-open device for one hand opening, with or without gloves.
No. 726PR036 ..... **$39.15**

F. Colonial Electricians' Knife

Both a knife and screwdriver. Screwdriver blade has sharp edge for scraping insulation and locks into place. Heavy-duty bail hangs onto belt clasp.
No. 490MI010 ..... **$13.60**

G. Klein Compact Knives

Lightweight. Stainless steel handles and blades. Rosewood handle inserts on both sides. Modified blades lock open.

No. 490TE034 Blade 1-5/8"L, OAL 2-1/2" **$32.65**
No. 490TE036 Blade 2"L OAL, 3" **$36.40**
No. 490TE038 Blade 2-5/8"L, OAL 4" **$49.45**

H. Kershaw Black Horse II

Features a 4" locking clip blade of top quality, high-carbon 440A stainless steel, fine blanked and honed to a precision edge. The 4-7/8" ergonomic handle, made of co-polymer, is contoured to provide a sure grip in all outdoor conditions. Includes a sheath. **(USA)**
No. 487PR060 ..... **$44.95**

J. Kershaw Black Gulch II

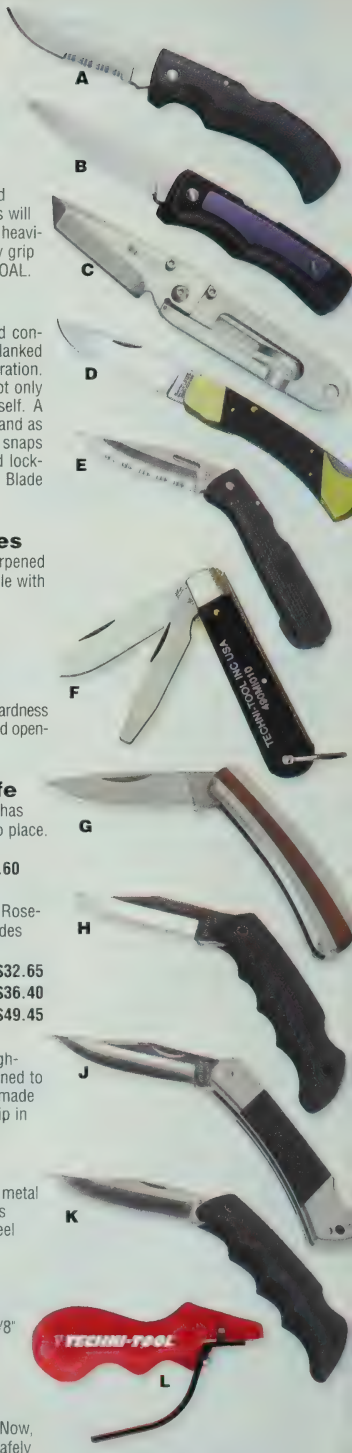
This perfectly-balanced knife features a sintered metal alloy frame insert with cross-grooved ABS scales to ensure your secure grip with a 3" stainless steel locking clip blade. Includes a sheath. 4-1/8" OAL closed. **(USA)**
No. 487PR320 ..... **$44.95**

K. Kershaw Black Colt II

The Black Colt II is a smaller version. with a 3-1/8" stainless steel, locking clip blade and a 4" contoured handle. Includes a sheath. **(USA)**
No. 487PR045 ..... **$29.95**

L. Knife & Snip Sharpener

Carbide Tips sharpen blades to exact tolerances.Now, you can easily sharpen your knives and shears safely and quickly. 4" OAL.
No. 227FI001 ..... **$6.95**



TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Pocket Knives

Swiss Master Utility

Designed with high carbon cutlery steel blades with hand-sharpened edges this Swiss Master Utility knife can go where you go to get the job done. **Includes:** Screwdriver; bottle & can opener; belt punch; corkscrew; carrying shackle. 3-3/4" length closed. **(USA)**

No. 255PR4804 ..... **$21.00**

New!

Tactical Knife

Features hardened stainless steel blade with half serrated locking blade, belt clip, and lanyard hole. Designed to open with one hand. 4" OAL closed. **(USA)**

No. 255PR7077 ..... **$18.00**

Stainless Steel Pocketknife

This stainless steel pocketknife is three knives in one. Each blade is hand-sharpened with ultra-honed edges. 3-1/2" closed length. **(USA)**

No. 255PR210 ..... **$17.00**

3-Blade Electrician Knife

This 3-Blade Electrician's Knife features a wire stripper/screwdriver with safety lock, hook riveted shackle. 3-3/4" OAL closed. **(USA)**

No. 255PR2903 .. **$19.00**

New!

Expedition Series Knives

These knifes feature a unique frame locking mechanism, and have an adjustable action that allows for fast opening in emergencies and slower opening for safety. Designed with hardened stainless steel half-serrated blade, and an aircraft aluminum handle. **(USA)**

Zion

No. 255PR710 3-1/2" Closed **$19.95**

Moab

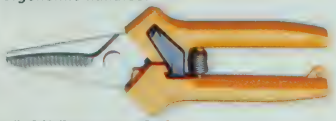
No. 255PR720 4-1/2" Closed **$24.95**

Yosemite

No. 255PR730 5" Closed **$29.95**

FISKARS®

Fiskars® Cutters and Shears feature heavy-duty, precision-ground stainless steel blades and comfort grip ABS handles or easy-grip ergonomic handles.



7" All-Purpose Snip

No. 692PR370 ..... **$8.95**

7" Ergonomic Grip Multi-Snip

With quick release lock, and wire cutting.

No. 692SC984..... **$10.30**

10-1/4" Comfort Grip Shears

Ergonomic, lock for safety.

No. 692PR097..... **$12.85**

8" Durasharp Shears

No. 692PR070 ..... **$5.50**

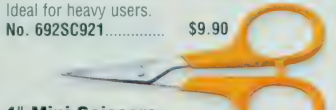
8" Right Hand, Bent Shears

No. 692PR709 ..... **$9.90**

5" Specialty Shears

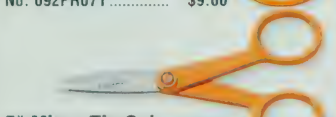
Ergonomic grip handles for right/left handed use. Ideal for heavy users.

No. 692SC921..... **$9.90**



4" Mini Scissors

No. 692PR071 ..... **$9.00**



5" Micro-Tip Scissors

No. 692PR948 ..... **$10.30**

7" Utility Shears

440 stainless steel blades stay sharp; patented, power-curve edge grips round items for easy cutting. Comfort molded solid ABS handles.

No. 692SC9637 ..... **$9.90**

Tec-Cut® Cutters

Quick-Clip® Speed Cutters

Stainless steel replaceable blades. Heavy-duty contour-designed Delrin® frames. With sharp points. 4-3/4" OAL. Cut length 1".

No. 272SC042 ..... **$8.25**

Replacement Blades

No. 272SC156 Sharp ..... **$7.25**/pr.

Electricians' Scissors

Fully nickel-plated solid steel scissors; hot forged. Scraper & file on back edge of blade. Double stripping notch, one for 19 gauge (0.035 in.) wire and one for 23 gauge (0.022 in.) wire. 5" OAL, cut length 1-7/8".

No. 272SC050 (USA) **$10.75**

No. 704SC010 Import **$8.40**

TEC-CUT

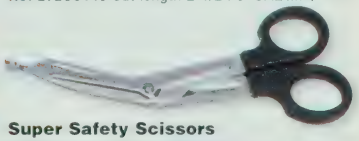
Electronics Scissors

Fully-nickel-plated, hot-drop-forged, solid steel scissors. Double sharp points; flat pattern; ring handles.

No. 272SC134 Cut length 1-1/4". 3-1/2" OAL **$17.95**

No. 272SC136 Cut length 1-1/2". 4" OAL **$15.25**

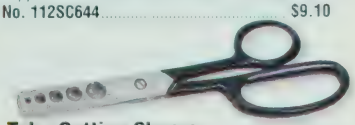
No. 272SC140 Cut length 2-1/2". 6" OAL **$19.95**



Super Safety Scissors

Stainless steel. Cuts to 24 gauge copper wire. One side serrated. 5-1/2" OAL.

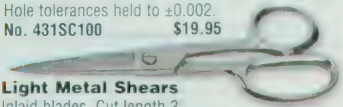
No. 112SC644..... **$9.10**



Tube Cutting Shears

Now easy to make sure tubing is cut straight Holes available in 1/2", 3/8", 5/16", 1/4" and 1/8" Hole tolerances held to ±0.002.

No. 431SC100 **$19.95**



Light Metal Shears

Inlaid blades. Cut length 3

No. 272SC012 8-1/4" OAL **$25.95**

Trimline® Bent Trimmers

The finest quality nickel-plated solid steel shears. Made of hot drop-forged steel

No. 272SC106 Cut length 3-1/8". 7" OAL . **$23.20**

No. 272SC108 Cut length 3-5/8". 8" OAL **$23.90**

A. Switchblade™

This heavy-duty utility knife gives you protection with a self-retracting, rounded-end blade which protects against accidental cuts and accidents. Reversible, die-cast metal housing for right- or left-hand use. Blades stored in handle. Includes one blade. **(USA)**

No. 477PR066 ..... **$5.95**

Heavy-Duty Refill Blades 100/Pk

No. 477PR118 ..... **$24.30**

B. Retractable Blade Utility Knife

Button projects and retracts blade to three positions– full, half and one-quarter out. Light aluminum safety grip handle provides blade storage. Furnished with three blades. Enamel Gray Finish. **(USA)**

No. 732PR020 ..... **$4.75**

Replacement Utility Knife Blades

Pointed, razor-type, heavy-duty utility knife blades.
For use in knife No. 732PR020 above. 2-7/16" x .025".

Standard Blades

No. 732PR048 5/Pk **$1.45**

No. 612PR092 100/Pk **$24.90**

Blunt Point Safety Blades

No. 612PR019 5/Pk **$1.89**

No. 612PR192 100/Pk **$24.95**

Blunt Point Safety Blades w/Cut-out

No. 612PR025 100/Pk **$24.90**

C. QuickBlade® Utility Knife

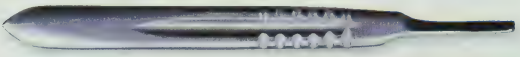
This ergonomic utility knife has a quick thumb release mechanism allowing you to change the blade quickly, without any tools. **Includes:** Body & Blade. **(USA)**

No. 612PR0088 ..... **$10.30**

Scalpels

Scalpel Handles

For contour scalpel blades. Nickel-silver alloy.
Blades are easily attached with a simple, sliding motion.



No. 146PR048 For blade 23 ..... **$11.50**

No. 146PR046 For blades 10 thru 15 ..... **$9.95**

Scalpel Blades

Stainless-steel, non-sterile, .015" thick blades. For precision cutting in micro-circuitry, masks & friskets in photography and art departments for stripping negatives, making fine jewelry, etc. Style 10, 11, 12, 15 fits 146PR046. 23 fits 146PR048. **Sold as 100 Blades per pack.**

Style	TT No.	1-9 Qty.	10-99 Qty.	100+ Qty.
10	146PR010	$36.30	$25.00	$20.00
11	146PR018	$30.20	$21.80	$17.30
12	146PR022	$89.00	$60.70	$49.50
15	146PR058	$36.30	$24.00	$19.00
23	146PR062	$44.20	$40.00	$37.50

D. PowerGrip® Utility Knife

Handle design reduces strain, adds comfort and protects hand. Swing-out blade storage holds three blades in the handle and opens without tools. Features a five-position blade lock, universal blade carriage that accepts all standard blades and a quick-release blade cover. ***Limited-Lifetime Warranty.***

No. 692PR984 ..... **$6.70**

E. Handy Cutter

Handy, all-metal cutter. Glossy, painted finish. Tap open, tap close. Safe and easy blade change. Contains one single-edge blade. **(USA)**

No. 612PR100 ..... **$12.50/Dz.**

Industrial Razor Blades

Blades degreased, protected by shelling paper in boxes lined with VPI paper. Blades .009"W.

No. 146PR052 Pk./100 (1-9) **$7.45** (10-49) **$5.65** (50+) **$5.30**

F. Razor Blade Scraper

Use it as a scraper. Features: one single-edge razor blade which is changeable and retractable. 4" OAL.

No. 146PR050 ..... **$1.35**

G. 13-Point Snap Knife

This 13-Point Metal Snap Knife is fully-retractable, and uses a standard 13-point snap blades. **Includes:** handy pocket clip and (1) blade. **(USA)**

No. 612PR503 ..... **$2.80**

H. Replacement Blades - 13 points

No. 732PR042 5/Pk. ..... **$1.95** **No. 612PR032** 10/Pk. **$2.35**

J. Leather Holster with Clip

Use this natural leather holster with clip to hold your standard utility knife and safety cutter. Attaches firmly to your tool belt. Knife not included. **(USA)**

No. 612AC326 ..... **$6.95**

K. Quick-Clip® Speed Cutters

Stainless steel replaceable blades. Heavy-duty contour-designed Delrin® frames. With sharp points. 4-3/4" OAL. Cut length 1".

No. 272SC042 ..... **$8.15**

Replacement Blades

No. 272SC156 Sharp ..... **$6.95/pr.**

Tec-Tuff® Micro Spatulas

All stainless steel micro spatulas are flexible, efficient aids for mixing and blending small quantities of material. Materials have little tendency to adhere to blades and the handles are extremely resistant to corrosion.

Flat ends 1-1/8" long. Glazed finish.

No. 608PR012 8" OAL **$3.95**

Flat ends 1-1/2" long, one tapered. Glazed finish.

No. 608PR016 8" OAL **$3.95**

Flat ends 1-1/8" long. One end round, other tapered.

No. 608PR020 7-1/4" OAL **$4.50**

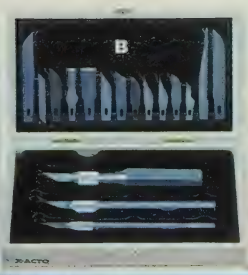
Micro Spoons one end is spoon shaped, 1-1/8" long by 9/16" at widest part. Other end is flat, 1-7/8" long. Excellent for transferring powdered or crystalline samples. Square end used for scraping and chopping small grains. 9-1/4" OAL.

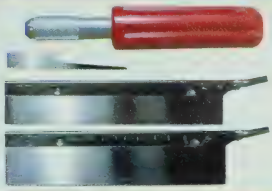
No. 608PR022 .... (1-11) $4.95 (12+) **$3.35**

4" stainless steel, precision ground for uniform flexibility. Wood Handle.

No. 608PR026 7-1/2" OAL **$8.65**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400





X-ACTO Knife Chest Sets

Tool Chest
Includes: Style 1 knife w/Style 11 blade; Style 2 knife w/Style 2 blade; Style 5 knife w/ Style 19 blade; Style 7, 11, 13, 16, 17, 22, 24, 26, & 28 blades; jeweler's screwdriver; block plane; block sander; spoke shave; balsa stripper; two routers, four gouges, pin vise, three drill bits and coping saw with blade. In wooden box.
A. No. 890PR154 ..... **$69.95**

Deluxe Knife Chest
Includes: Style 1 Knife with Style 11 Blade. Style 2 Knife with Style 2 Blade. Style 6 Knife with Style 24 Blade and 14 assorted blades. In wooden box.
B. No. 890PR150 ..... **$31.95**

Knife Chest
Wooden chest contains one each #1,#2, #5 (precision, medium & heavy-duty) knives and ten assorted blades. In wooden box.
C. No. 890PR148 ..... **$17.95**

X-ACTO Saws

Deluxe Razor Saw/Knife Set
No. 5 knife, handle and one ea. of razor saw blade. No. 890PR048, No. 890PR050, & No.890PR052. Plus No. 890PR036 keyhole saw blade and five assorted knife blades. Fitted storage tray with see-through cover.
No. 890PR238 ..... **$16.95**
Saw blade fits No. 5 knife handle.
4-1/2"L x 3/4"D, 42 teeth per inch.
No. 890PR048 ..... **$2.75**

Blades

	Pkg. of Blades	Dispenser 15 Blades	Bulk Pack 100
(#8) No. 890PR250 (5/Pk) Utility Knife Blade - Refill	$1.95	-	-
(#9) No. 890PR278 (5/Pk) Blade - Refill Fits 890PR080 only	$6.95	-	-
(#10) *No. 890PR010 (5/Pk) For fine general cutting, carving, and correcting stencils	$2.95	890PR116 $9.50	890PR170 $35.80
(#11) *No. 890PR012 (5/Pk) Extremely sharp point for fine angle cutting & stripping	$1.75	890PR118 $5.30	890PR172 $22.75
(#16) *No. 890PR022 (5/Pk) Stenciling, scoring, etching	$1.75	890PR120 $5.50	890PR176 $26.50
(#17) ***No. 890PR024 (5/Pk) 1/4" chisel blade for narrow cuts	$2.20	-	890PR178 $33.95
(#18) § No. 890PR026 (5/Pk) 1/2" Chisel blade for deep cross cuts and paint scraping	$1.95	-	890PR180 $29.95
(#19) § No. 890PR122 For light chiseling, rough shaping, deburring, and trimming	-	890PR122 $6.95	890PR182 $37.95
(#21) *No. 890PR032 (5/Pk) Same as 890PR012/stainless steel	$2.00	890PR124 $6.95	890PR184 $27.95
(#22) § No. 890PR038 (5/Pk) General shaping, whittling, trimming removes excess flashing	$2.95	-	890PR186 $58.95
(#23) § No. 890PR044 (5/Pk) Double edge for close quarter cuts, angled corners, stripping	$6.75	-	890PR188 $152.00
(#24) § No. 890PR056 (5/Pk) Close corner cuts for templates, mats, deburring, trimming, stripping, gasket cutting	$2.20	-	890PR190 $33.00
(#25) § No. 890PR062 (5/Pk) General carving, whittling trimming, heavy cutting	$6.00	-	-
(#26) § No. 890PR040 (5/Pk) 2-5/16" Cutting edge for general purpose whittling, trimming	$3.75	-	-
(#91) *No. 890PR196 (100/Pk) Modified No. 890PR012 w/a higher included angle, less pointed tip	-	-	890PR196 $35.50
(#153) § No. 615PR153 (2/Pk) 3/16" "V" Gouge - Ideal for cutting circuit board traces. Uses Style 5 or 6 handle.	$2.50	-	-
(#213) **No. 890PR034 (5/Pk) Saw cutting including plastics	$2.95	-	-
(#215) § No. 890PR036 (5/Pk) Keyhole saw blade/small interior cuts	$5.95	-	-

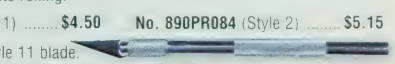
Knives

Double Knife Set:
Style 1 Knife & Style 2 Knife handles, plus Style 1 & Style 2 blade assortments.
No. 890PR140..... **$11.15**

With plastic guard.
Hexagonal chuck resists rolling.
No. 890PR082 (Style 1) ..... **$4.50** **No. 890PR084** (Style 2) **$5.15**

Aluminum handle. Style 11 blade.
No. 890PR068 (Style 1) 4-7/8" OAL **$2.65**
No. 890PR162 No. 1 Knife with 5/pk of Style 11 blades..... **$6.95**
High-impact plastic guard. **(For Style 1 Knife)**
No. 890PR174 ..... **$.60**

5" aluminum handle. No. 22 blade.
No. 890PR070 (Style 2) .. **$3.95**



Aluminum with hexagonal handle. No. 24 blade.
No. 890PR076 (Style 6) 4-3/4" OAL **$6.75**

Plastic handle, metal blade lock. No. 19 blade.
No. 890PR074 (Style 5) 4-1/4" OAL **$4.75**

Style 3 Pen Knife, metal barrel. Plastic cap clips to pocket. No. 10 blades. In tube.
No. 890PR072 (Style 3) 5-1/4" OAL **$4.25**

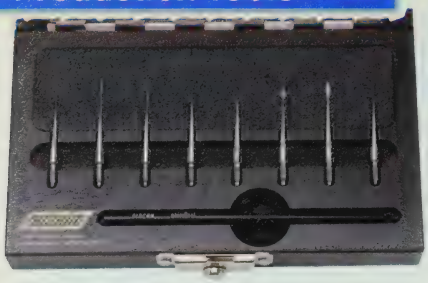
Retractable, push-button positive lock when open. Pocket clip.
No. 890PR080 ..... **$10.50**
No. 890PR278 Replacement blade 5/pk **$6.95**

Lazerblade Knife
Engineered for comfortable handling
Safe and easy blade change. Lightweight, will not roll. Spare-blade compartment includes two extra-sharp blades. Uses standard No. 11 blade
No. 612PR053 ..... **$4.15**

Replacement Blades

Five Blade Assortment — Two No. 11 & 1 ea. No. 10, 16, 17
No. 890PR088** **$1.95**
Five Blade Assortment — Two No. 24 & 1 ea. No. 18, 19, 22
No. 890PR094 § **$2.00**

*Fits Nos. 890PR162, 890PR062, 890PR092, 890PR072 • **Fits Nos. 890PR162, 890PR068, 890PR092
***Fits Nos. 890PR162, 890PR068, 890PR072, 890PR092 • §Fits Nos. 890PR070, 890PR084, 890PR074, 890PR071



The Smallest Precision Tools Available.

Circon
Micro Tool Precision Kit - 9 pc

Includes: one MicroTool Handle and eight of the most popular tip configurations. These are the Ultra MicroNeedle, Sharp Micro Needle, MicroHook, Diamond MicroScribe, Ultra MicroLance, MicroLance, Ultra MicroKnife on straight shafts, and a straight Stiff MicroSpatula. **(USA)**

No. 244PR015 ..... **$360.15**

Interchangeable Micro Tool Handle

The handle is anodized aluminum and specially designed for long duration work.

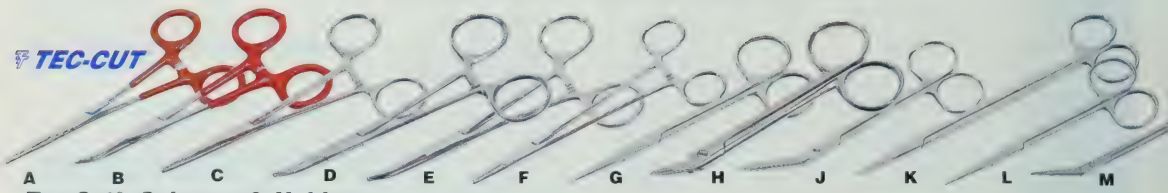
No. 244PR070 ..... **$11.55**

Interchangeable Stainless Steel Tips

MicroTool stainless steel tips are interchangeable with special handle above. *Kits consist of 2 Tips and 1 Handle

Tip	TT No.	Description	Price
		Ultra Sharp MicroLance – 0.100" Double edge lance.	
	244PR195	Straight Tip	$82.25
		Sharp MicroChisel Tip – 0.030" edge.	
	244PR090	Straight Tip	$33.00
	244PR036*	Straight Tip Kit	$69.20
	244PR114	90° Bend Tip	$42.90
		MicroMirror – 30° Bend.	
	244PR118	Forward	$82.50
	244PR120	Reverse	$66.15
		Stiff MicroSpatula – 30° Bend.	
	244PR116	Tip	$26.70
		Carbide MicroScribe Tip – Tungsten carbide-0.0005" radius tip suitable for probing or scribing.	
	244PR098	Straight Tip	$27.55
	244PR044*	Straight Tip Kit	$61.15
		Diamond MicroScribe Tip – Top grade diamond mounted on a steel shaft- microscopically sharp point 60° incl. angle.	
	244PR100	Straight Tip	$34.65
	244PR046*	Straight Tip Kit	$72.35
	244PR122	30° Bend Tip	$42.90

Tip	TT No.	Description	Price
		Ultra Sharp MicroNeedle Tip High Strength tungsten alloy 0.0002" radius	
	244PR072	Straight Tip	$33.00
	244PR018*	Straight Tip Kit	$68.00
	244PR108	30° Bend Tip	$42.90
	244PR054*	30° Bend Tip Kit	$72.45
	244PR102	90° Bend Tip	$32.15
		Sharp MicroNeedle Tip	
	244PR074	Straight Tip	$21.45
	244PR020*	Straight Tip Kit	$45.95
	244PR110	30° Bend Tip	$19.95
	244PR104	90° Bend Tip	$19.80
		Blunt MicroNeedle Tip	
	244PR076	Straight Tip	$19.00
	244PR022*	Straight Tip Kit	$44.70
		MicroHook Kit	
	244PR024*	MicroHook Tip Kit	$66.90
		Ultra Sharp MicroKnife Tip – 0.040" edge.	
	244PR082	Straight Tip	$31.75
	244PR028*	Straight Tip Kit	$69.95
		Sharp MicroKnife Tip – 0.100" edge.	
	244PR084	Straight Tip	$39.65
	244PR030*	Straight Tip Kit	$82.45
		MicroBrush	
	244PR096	Straight Tip	$24.95
	244PR042*	Straight Tip Kit	$56.95



Tec-Cut® Scissors & Holders

Scissors are hot-drop forged & finished by hand to assure a fine finish & perfect cutting edges. Constructed from special analysis steel. Because of space limitations only the most popular models are shown. ***Large quantity quotations and blanket orders receive special consideration.***

QUANTITY DISCOUNTS: 1-11: Net 12-24: 10% 25-49: 15% 50+ Ask for Quotes

Straight Lock Holder

Stainless steel box joint construction, slim serrated jaws. Three position snap-lock. Excellent heat sink and clamp. Allows quick disconnect and reconnect for temporary connections. P.V.C. Coated Handles. 5-3/4" OAL.

A. No. 758TW050 ..... **$5.95**

Curved Lock Type Holder

Same as 758TW050 except with a slight curve in the jaws. P.V.C. Coated Handles. Stainless steel box joint construction. 5-3/4" OAL.

B. No. 758TW048 ..... **$5.95**

No. 758TW058 Miniature straight model of 758TW054. 5" OAL **$5.20**

Straight Lock Holder

Stainless steel box joint. *NSN-5120-00-012-4013* Straight, lock type. 5-1/2" OAL.

C. No. 758TW054 ..... **$6.00**

Stainless steel box joint construction, slim serrated jaws. Three position snap-lock. Excellent heat sink and clamp. Allows quick disconnect and reconnect for temporary connections. P.V.C. Coated Handles. *NSN-5120-01-026-4062* Jumbo model. Straight only. 8" OAL.

No. 758TW060 ..... **$24.95**

Miniature Lock Holder

Stainless steel box joint construction. 5" OAL for extremely fine work. Curved.

D. No. 758TW056 ..... **$5.25**

Curved Lock Holder

Stainless steel box joint construction. *NSN-5120-00-012-4016.* 5-1/2" OAL.

E. No. 758TW052 ..... **$6.00**

Straight Long Parts Holder

All Stainless, positive, three ratchet lock. Serrated jaws for better grip. Stainless steel box joint construction. Excellent heat sink. 7" OAL.

F. No. 758TW224 ..... **$6.95**

Scissor Lightweight Iris

Extremely fine beaks, stainless steel. Surgical quality for small places and for delicate work. 4-1/2" OAL. Blade Length 1"

G. No. 758SC012 Straight **$6.50**

No. 758SC010 Curved **$6.50**

Scissor Angle Crown

Special cutout for round wire; serrated jaw; strong leverage. Angled blades. 1/2" x 1/4". Blade Length 1/2". 4-3/4" OAL.

H. No. 758TW210 ..... **$6.50**

Scissor Angular Notch

Notched beak to selectively cut small wires or cable lacing. Blade Length 1-1/8". 5" OAL.

J. No. 758TW216 ..... **$6.50**

Scissor Medium

For deep chassis or circuit drawer work. Smooth blades. Stainless steel. Blade Length 1-1/4". 7-1/4" OAL.

K. No. 758TW218 ..... **$14.25**

Scissor Medium Utility

Finely serrated, straight blade for non-slip cutting at the tips. Excellent for shielding foils, thin films. Blade Length 1". 4-1/2" OAL.

L. No. 758TW220 ..... **$8.75**

Scissor Angle

For optimum visibility, a 60° angle bend. Blade Length 1". 4-1/2" OAL.

M. No. 758TW222 ..... **$8.75**

DREMEL

290 Engraver Kit - 5 pc

Writes like a pencil on material from hardened steel to glass. Calibrated stroke adjustment dial regulates depth of engraving from fine lines to deep marks. 115V, 60Hz., 0.2 Amp., 7200RPM.

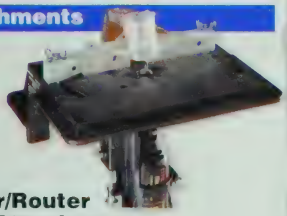
No. 302FI110 ..... $19.40

Diamond Engraving Point
No. 302FI434 ..... $19.15
Carbide Replacement Point
No. 302FI432 ..... $6.25

750 Minimite® Cordless Kit - 8 pc

Take it anywhere. 4.8V motor for light duty precision jobs. **Includes:** 4.8V two-speed (5,000/10,000RPM) Minimite®, quick change collet, 3 hour charger, and five assorted accessories. *Two-Year Limited Warranty.*
No. 302FI750 ..... $39.20

Attachments



231 Shaper/Router Table Attachment

Ideal for edging, shaping, grooving, recessing and freehand routing.
No. 302FI231..... $44.30
Dremel® 330 Router Attachment
No. 302AC330 ..... $29.20

2217 MultiPro™ Holder and Base

Holds Dremel models: 245, 250, 270, 275, 280, 285, 370, 380, 395, 595, & 850.
No. 302FI090..... $34.95

Spiral Guide Attachment Kit

Attach to your MultiPro™ Tool in place of the housing cap for sturdy, controlled cuts in fiberglass, wood and more. Includes two drywall cutting bits and one multi-purpose cutting bit. **(USA)**
No. 302AC565 (565) $20.00

Right Angle Attachment

New!

The Right Angle Attachment enhances the versatility of your Dremel rotary tool and allows you to get to hard-to-reach areas. **Features:** shaft lock; ball bearing and spiral bevel gears; coupling system; quick connect system. **(USA)**
No. 302PR575 ..... $32.00

3956 Variable Speed MultiPro™ Super Kit - 76 pc

Choose this high-speed, precision, handheld rotary tool with ball-bearing motor to drive a wide variety of bits at speeds of 5,000 to 30,000 RPM and any speed in between.
Kit contains: Variable speed Model 395 (302FI395) MultiPro™ tool; 76 assorted accessories; customized storage case; 225 Flex-Shaft attachment. MultiPro™ keyless chuck, wrench (302FI225) and projects book.
Five-Year Limited Warranty. **(USA)**
No. 302FI956..... $116.00

395 MultiPro™ Variable Speed - Tool Only
Tool and five accessories/bits and collet wrench.
Five-Year Limited Warranty. **(USA)**
No. 302FI395 Tool only $71.50

3962 Variable Speed MultiPro™ Kit - 72 pc

Contains: (1) 395 variable speed Multi Pro™ tool (302FI395); (72) piece assorted accessories; quick change collet; wrench; customized storage case with tray and projects book. *Five-Year Limited Warranty.* **(USA)**
No. 302FI3955..... $97.60

gh Speed Professional Tool Kit - 46 pc

inal high speed rotary tool kit features: eadout in 1,000 RPM Increments: dback; Separate on/off switch; Variable 00 RPM; "Soft Start" allows the tool to selected speed gradually. **Includes:** (40) ssories; keyless chuck; chest / drawer x shaft and projects book. **(USA)**
83..... $166.35

2850 Two-Speed MultiProTM Kit - 35 pc

Kit contains: two-speed, 15,000 and 30,000 RPM MultiPro™ tool; 35 assorted accessories; quick change collet; wrench; storage case and projects book. *Five-Year Limited Warranty.* **(USA)**
No. 302FI2850 ..... $72.45

7700 Two Speed MultiProTM Kit - 50 pc

Cordless, two-speed MultiPro™ 7.2V two-speed (7,500/15,000RPM) with quick change collet, 3 hour battery and charger. Plus 50 piece assorted accessories, storage case and projects book.
Two-Year Limited Warranty.
No. 302FI770..... $58.35
Spare Battery Pack
No. 302AC757 ..... $23.20

Polishing Compound

Use with felt or cloth accessories to polish metals and plastics. Compound will remove a dull oxidized film and/or light surface imperfections.

No. 302CH421 ..... **$2.70**

Shank Rubber Cleaning & Polishing

3/32" Shank Rubber Polishing Points (1/4" Dia.)				
Tip	TT No.	Model	Description	PRICE/Ea.
	302PR461	461	Blue, ferrous metals	$2.65
	302FI462	462	Blue, ferrous metals	$2.65

Cleaning & Polishing Accessories					
Tip	TT No.	Model	Description	Use With	PRICE/Ea.
A	A. 302FI154	414	1/2" dia. felt	Mandrel 401	$2.70
B	B. 302FI170	422	3/8" dia. felt	Mandrel 401	$2.70
C	C. 302FI172	423	1 dia. cloth	Mandrel 402	$2.70
D	D. 302FI176	425	Emery Impregnated	Mandrel 402	$2.65
E	E. 302FI178	427	Emery Impregnated	Mandrel 424	$2.65

1/8" Shank Bristle & Carbon Steel Brushes

Tip	TT No.	Model	Description	Dia.	PRICE/Ea.
	302FI134	403	Bristle; wheel	3/4	$2.65
	302FI136	404	Bristle; cup	1/2"	$2.65
	302FI138	405	Bristle; end	1/8"	$2.65
	302FI180	428	Carbon; wheel	3/4"	$2.65
	302FI194	442	Carbon; cup	1/2"	$2.65
	302FI196	443	Carbon; end	1/8	$2.65

Sanding Bands & Sanding Discs

Tip	TT No.	Model	Description	Dia.	PRICE/Ea.
	302FI142	407	Coarse 60 Grit; 1/8" shank	1/2"	$3.60
	302FI144	408	Coarse 60 Grit	1/2"	$2.65
	302FI184	432	Fine 120 Grit	1/2	$2.65
	302AC430	430	Coarse 60 Grit; 1/8" shank	1/4"	$3.60
	302AC431	431	Coarse 60 Grit	1/4"	$2.65
	302AC438	438	Fine 120 Grit	1/4"	$2.65
	302FI148	411	Coarse 180 Grit; 36/vial	3/4"	$3.00
	302FI150	412	Medium 220 Grit; 36/vial	3/4"	$3.00
	302FI152	413	Fine 240 Grit; 36/vial	3/4"	$2.95

Cut-Off Wheels For Use With Mandrel 402

Fiberglass reinforced. 1-1/4" dia. .045" thick. 5/Pk.

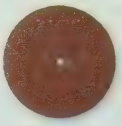
No. 302FI001 (Model 426)..... **$7.65**

H.D. Emery. 15/16" dia. .040" thick. 20 per vial.

No. 302FI166 (Model 420) **$5.70**

Emery. 15/16" dia. .025" thick. 36 per vial.

No. 302FI146 (Model 409)..... **$5.30**



Dremel Mandrels & Collets

Tip	TT No.	Model No.	PRICE/Ea.
	302FI130	Mandrel 401	$2.65
	302PR402	Mandrel 402	$2.65
	302FI174	Mandrel 424	$2.65

Collet	TT No.	Model No.	Tip Size	PRICE/Ea.
	302FI198	480	1/8	$2.65
	302FI200	481	3/32"	$2.65
	302FI202	482	1/16"	$2.65
	302FI204	483	1/32"	$2.65

Collet Nut Kit Includes Collet Nut and collets 480, 481, 482, and 483.

No. 302AC485 (Model 4485)..... **$7.20**

No. 302PR480 Dremel Keyless Chuck (Model 4486) **$11.00**

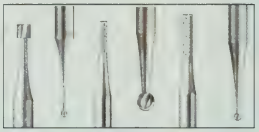
3/32" Shank Engraving Cutters

Tip	TT No.	Model No.	Tip Size	PRICE/Ea.
	302FI012	105	1/32"	$2.65
	302FI014	106	1/16"	$2.65
	302AC107	107	3/32"	$2.65
	302FI108	108	1/32"	$2.65
	302FI020	109	1/16"	$2.65
	302FI112	110	5/64"	$2.65
	302FI011	111	1/32"	$2.65
	302PL113	113	1/16"	$2.70 5/Pk.

Diamond Wheel Point Set - 4 pc

Use for fine detailing, cutting, carving engraving, touch-up and finishing on wood, glass, ceramics, jade, hardened steel, semi-precious stones, and other ultra-hard materials. 3/32" shank.

No. 302FI9927 ..... **$29.60**



Engraving Cutter Set - 6 pc

Six quality bits for engraving, carving and routing in wood, fiberglass, plastic and soft metals. Not for use on hardened materials. 3/32" shank.

No. 302FI300 .... **$11.85**

1/8" Shank Hi-Speed Cutters

Tip	TT No.	Model No.	Tip Size	PRICE/Ea.
	302FI030	114	5/16"	$5.30
	302FI032	115	5/16"	$5.30
	302FI116	116	1/4"	$5.30
	302FI121	121	1/4"	$5.30
	302FI042	124	5/16"	$5.30
	302FI044	125	1/4"	$5.30
	302FI054	178	3/8"	$5.30
	302FI058	190	3/32"	$5.30
	302FI191	191	1/8"	$5.30
	302FI064	193	5/64"	$5.30
	302FI066	194	1/8"	$5.30
	302FI068	196	7/32"	$5.30
	302FI072	198	9/32"	$5.30
	302FI074	199	3/8"	$5.30

Not for use with hardened materials.

High Speed Cutter Set - 6 pc

For carving, shaping, grooving, and hollowing most woods, soft metals and plastics. 1/8" shank.

No. 302FI327 ..... **$23.80**

1/8" Shank Vandium Steel Cutters - 12 pc

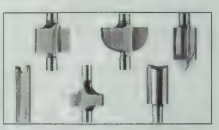
Suitable for use on all materials except hardened steel and glass.

No. 378FI136 ..... **$46.80**

High Speed Router Bit Set - 6 pc

Rout, inlay and mortise in wood and other soft materials. Use with Dremel Router Attachments 229 and 230. 1/8" shank.

No. 302FI212 ..... **$43.10**



Tungsten Carbide Cutter Set - 5 pc

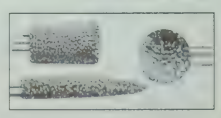
Tungsten carbide cutters outlast other high speed cutters. Use on wood, fired ceramics, hardened steel and other ultra-hard materials. 1/8" shank.

No. 302FI9925 ..... **$42.35**

Structured Tooth Tungsten Carbide Cutter Set - 3 pc

Fast cutting teeth for rapid material removal of wood, plastic, epoxy or rubber. 1/8" shank.

No. 302FI9923 ..... **$34.00**



TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

1/8" & 3/32" Shank Tungsten Carbide Cutters

Tip	TT No.	Model No.	Tip Size	PRICE/Ea.
	302FI384	9901	1/8"	$9.95
	302FI394	9903	1/8"	$9.95
	302FI398	9904	3/32"	$9.95
	302FI400	9905	1/8"	$9.95
	302FI906	9906	1/8"	$9.95
	302FI422	9909	1/8"	$9.95
	302FI424	9910	1/8"	$9.95
	302FI426	9911	1/8"	$9.95
	302FI912	9912	1/8"	$9.95

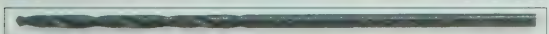
1/8" Shank Aluminum Oxide Grinding Stones (Red/Brown)

Tip	TT No.	Model No.	Tip Size	PRICE/Ea.
	302FI932	932	3/8"	$2.65
	302FI945	945	3/16"	$2.65
	302PR952	952	3/8"	$2.65
	302FI953	953	1/4"	$2.65
	302PR997	997	3/32"	$2.65
	302PR815	8153	3/16"	$2.65
	302FI817	8175	3/8"	$2.65
	302PR8193	8193	5/8"	$2.65

Silicone Carbide Grinding Stone Set - 6 pc
Use for grinding hard and soft metals, ceramics, glass, porcelain and gemstones. 1/8" shank.
No. 302FI307 ..... **$11.85**

1/8" Shank Silicon Carbide Grinding Stones (Blue/Green)

Tip	TT No.	Model No.	Tip Size	PRICE/Ea.
	302FI3142	83142	9/32"	$2.65
	302FI310	83322	1/8"	$2.65
	302PR837	83702	1/8"	$2.65
	302FI320	84922	3/16"	$2.65
	302FI324	85422	25/32"	$2.65
	302FI328	85602	13/32"	$2.65



Carbon Twist Drill Bit Sets
1 doz. asstd., 55-80 range bits
No. 890FI010 ..... **$14.50**
1 doz. asstd., 45-60 range bits
No. 890FI012 ..... **$14.50**

New!

Erem Pin Vises
Fluted brass handle pin vise. (France) Maximum pin size is .015". OAL 3.5".
No. 272PR227 ..... **$6.00**
Maximum pin size is .025". OAL 4".
No. 272PR229 ..... **$6.75**

Pin Vise Set - 4 pc
Set of four sizes-Capacity 0 to 0.187". For holding small rods, wires, drills, taps and other small tools. Tool steel collets. Handle is hollow to permit holding of long rods.
No. 400PR216 ..... **$56.25**

Pin Vises
Two sizes with knurled steel swivel handles and solid locking chuck noses. **(USA)**

Pin cap. 0.000"-0.031". 2-3/4" OAL.
A. No. 580PR012 ..... **$7.50**
Pin cap 0.032"-0.063". 2-3/4" OAL.
A. No. 580PR014 ..... **$7.50**

Double End-2 Jaw: 0-1.5 mm: 1.5-2.5 mm. 4-1/2" OAL.
B. No. 846PR054 ..... **$6.15**

Pin Vise with Bits Set - 4 pc
Includes double-ended pin vise, pin vise bit guard and three assorted drill bits
No. 890PR208 ..... **$10.50**

Carbide Burs For air turbines tools. Use to grind, deburr, shape molds, dies, components, PC boards, etc. ***All dimensions are approximate and shown in inches. (Not for use with Dremel tools.)*** *"FG" specifies air-rotor*

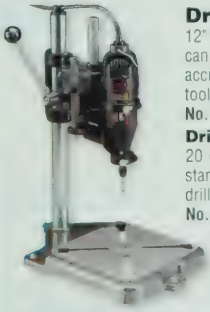
Bur	TT No.	Shank	Description	Dia.	PRICE/ea.
	712FI262	1/16" FG	Cylinder Cross-Cut	.039"	$4.25
	712FI318	1/16" FG	Taper	.039"	$4.25
	712FI320	3/32" HP	Taper	.039"	$4.25
	712FI010	1/16" FG	Round Plain	.032"	$4.25
	712FI012	3/32" HP	Round Plain	.032"	$4.25
	712FI104	3/32" HP	Round Plain	.047"	$4.25
	712FI070	1/16" FG	Round Plain	.039"	$4.25
	712FI072	3/32" HP	Round Plain	.039"	$4.25
	712FI156	3/32" HP	Round Plain	.047"	$4.25
	712FI184	3/32" HP	Round Plain	.063"	$4.25
	712FI300	3/32" HP	Round Plain	.104"	$4.25
	712FI222	1/16" FG	19mm OAL	.035"	$4.25

Tec-Bond Diamond Burs Precision machined mandrels plated with 325 grit diamonds. ***For air turbine handpieces that use .0625 (1/16") dia. shafts. Due to mfg. tolerances all dimensions are approximate. Runout ±.002".**

Tip	TT No.	Shank	Description	Diameter	PRICE/Ea.
	712FI282		Flame	.045"	$14.95
	712FI034		Cylinder	.167"	$14.95
	712FI314	3/32" HP	Ball	.021"	$10.00
	712FI186	3/32" HP	Ball	.095"	$12.95
	642FI042	3/32" HP	Ball	.042"	$18.70
	712FI220	1/16" FG	Ball	.052"	$14.95
	712FI057	3/32" HP	Pear	.057"	$24.70

Dremel Heavy-Duty Flex-Shaft Kit
Includes: H.D. Flex-Shaft tool, a foot speed control for precise regulation of speed from 0-20,000 R.P.M., 1" handpiece with 1/4" and 1/8" collets for rough shaping and heavy work, and wrench and lock pin. **(USA)**
No. 302PR736 ..... **$236.50**

Flex-Shaft Attachment
Attaches to Dremel Tool Nos. 275, 285, 395, 398. Complete with 36" long cable with 1/2" dia. handpiece.
No. 302FI225 ..... **$39.10**



Dremel Drill Press
12" high drill press for Dremel power tools, the table can be raised and lowered, locks in any position for accurate depth. For use with 275, 285, 398 and 850 tools only. **(USA)**
No. 302PR212 ..... **$46.95**

Drill Stand Set - 20 pc
20 carbon steel wire twist drills. Nos. 80-61. Plastic stand with acetate cover. Numbered place for each drill bit. **(USA)** *(Not Shown.)*
No. 890FI016 ..... **$30.95**

Microlux Drill Press
A precision miniature drill press for labs, electronics, jewelry and model work. 5" x 9" cast aluminum table base and housing machined surface. Three-speed belt drive, 2100, 4500, 6500 RPM. Ball bearing spindle with 1-1/4" travel. Three-jaw chuck and key, .028" to 1/4" capacity. Sliding gauge for drilling in-line holes. 3/4" plated column: calibrated depth control. Adj. chuck-to-table distance, 0" to 6". 110 volt AC high torque motor
No. 561PR111 **$183.55**

TECHNI-TOOL®

brand Tweezers are designed . . .

to meet the precision requirements of the electronic industry. *Techni-Tool®* tweezers are hand-crafted in Switzerland of the finest alloys available. *Techni-Tool®* tweezers are lightweight, durable, and crafted by the same artisans that make tools for fine swiss watches.

Techni-Tool® Tweezers have been synonymous with "precision swiss tweezers" for over 41 years! *Techni-Tool®* is quality you can count on tweezer-after-tweezer.

Quality guaranteed – our name is on every one!

0 General purpose, assembly; slim blades tapering to fine round points. 4-1/2" OAL.
No. 758TW522 Stainless Steel **$18.25**
No. 758TW334 Carbon Steel **$18.25**

0A Similar to the type 0 No. 758TW522, except the tips are reduced & the points are rounded. Length 4-1/2" OAL.
No. 758TW256 Stainless Steel **$13.15**
No. 758TW258 Teflon Coated Stainless Steel **$21.20**

0C Small slim tweezer, extra fine points. 3-1/2" OAL.
No. 758TW514 Stainless Steel..... **$18.25**
No. 758TW332 Carbon Steel **$18.25**

00 Heavy-duty, strong blades, tapering to regular strong points. 4-3/4" OAL.
No. 758TW446 Stainless Steel **$18.25**
No. 758TW280 Carbon Steel **$18.25**
No. 758TW448 Teflon Coated Stainless Steel **$21.50**
No. 758TW282 Carbon Teflon Coated **$21.50**

00D Same as the 00 with serrations on the tips and outside for better grip. 5" OAL.
No. 758TW450 Stainless Steel **$19.25**
No. 758TW283 Carbon Steel **$19.25**
No. 758TW452 Teflon Coated Stainless Steel **$23.50**

000 Fine point radius edges. 4-3/4" OAL.
No. 758TW260 Stainless Steel $17.95

Precision Stainless Steel, Anti-Magnetic, Tweezers

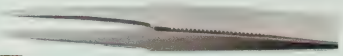
QUANTITY DISCOUNTS: 1-11: List 12-24: 10% 25-49: 15% 50+: Call For Quotations

1 General use, with fine points. 4-3/4" OAL.
No. 758TW454 Stainless Steel **$17.25**
No. 758TW286 Carbon Steel **$17.25**
No. 758TW414 Titanium **$23.90**
No. 758TW456 Teflon-Coated Stainless Steel **$21.50**

2 General use, blades taper sharply from body, strong regular beveled points. 4-3/4" OAL.
No. 758TW458 Stainless Steel **$17.25**
No. 758TW290 Carbon Steel **$17.25**
No. 758TW418 Titanium **$32.25**
No. 758TW460 Teflon Coated Stainless Steel **$21.50**

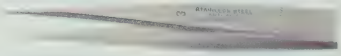
2A Flat tipped, approx. .050" and smooth all sides to prevent marring silicon, germanium and crystal wafers. 4-3/4" OAL.
No. 758TW462 Stainless Steel **$19.30**
No. 758TW472 Teflon Coated Stainless Steel **$23.90**
No. 758TW422 Titanium..... **$24.75**

2AC Non-mag nickel (As No. 758TW462) flat tip. 4-3/4" OAL.
No. 758TW464..... **$17.90**

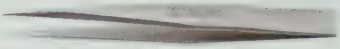


2AD Same tweezer as No. 758TW462, but with a serrated handle for a firm grip. 4-3/4" OAL.
No. 758TW468 Stainless Steel..... **$19.95**
No. 758TW470 Teflon Coated S.S. **$23.75**

2AB Curved tips, long, thin and rounded. Tips width 1.28mm, special for semiconductor Wafers. 4-7/8" (125 mm) OAL.
No. 758TW062 Stainless Steel..... **$18.95**
No. 758TW064 Teflon Coated **$23.50**



3 Assembly work, very fine, round points. 4-3/4" OAL.
No. 758TW474 Stainless Steel **$19.30**
No. 758TW294 Carbon Steel..... **$18.90**
No. 758TW424 Titanium **$23.90**
No. 758TW476 Teflon Coated Stainless Steel **$22.50**



3C Assembly work, very fine round points similar to Type No. 3 but shorter. 4-3/8" OAL.
No. 758TW478 Stainless Steel **$19.30**
No. 758TW298 Carbon Steel **$18.65**
No. 758TW428 Titanium **$23.50**
No. 758TW480 Teflon-Coated Stainless Steel **$22.75**
No. 758TW481 Epoxy-Coated S.S.....**Sale** **$23.00**

3C Type 3C w/anti-crush feature. 4-1/2" OAL.
No. 758TW194 Stainless Steel **$24.30**

4 Extra fine work, blades taper sharply from body to very fine, long, rounded points. 4-1/4" OAL.
No. 758TW482 Stainless Steel..... **$20.90**
No. 758TW302 Carbon Steel **$19.95**
No. 758TW430 Titanium..... **$33.90**
No. 758TW484 Teflon-Coated Stainless Steel **$23.75**

5 Extra fine work, long blades break sharply and taper to super fine, round points. 4-3/8" OAL.
No. 758TW486 Stainless Steel **$22.80**
No. 758TW306 Carbon Steel **$20.15**
No. 758TW434 Titanium **$24.75**
No. 758TW488 Teflon-Coated Stainless Steel **$24.95**
No. 758TW270 Phosphor Bronze **$16.00**

5A Fine strong points with an improved blade angle for visibility. 4-3/8" OAL.
No. 758TW490 Stainless Steel..... **$20.95**
No. 758TW492 Teflon-Coated Stainless Steel **$24.95**

6 Wire coiling or hairspring, sharply angled, super fine, tapered points. Points length 9/16". 4-1/2" OAL.
No. 758TW494 Stainless Steel **$24.95**
No. 758TW310 Carbon Steel **$22.25**
No. 758TW438 Titanium **$24.95**

7 Assembly work, hand can rest on bench; curved, super fine, rounded points. 4-1/2" OAL.
No. 758TW498 Stainless Steel **$24.95**
No. 758TW314 Carbon Steel **$21.95**
No. 758TW442 Titanium Steel..... **$21.95**
No. 758TW500 Teflon-Coated Stainless Steel **$24.95**
No. 758TW483 Epoxy-Coated Stainless Steel **$19.25**

7B Same as Type No. 7 but with serrated jaws for non-slip action. 4-1/2" OAL.
No. 758TW502 Stainless Steel **$24.95**
No. 758TW318 Carbon Steel **$21.95**

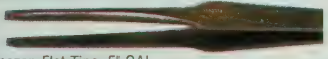
8 Extra-heavy tweezer for bending or straightening. blades angle to non-cutting knife edge.
No. 758TW506 Stainless Steel 4-1/2" OAL.. **$24.50**
No. 758TW322 Carbon. 4-3/4" OAL **$16.00**

Economy Assembly Tweezers - Quantity Discounts Available

Excellent for bending and inserting fine wires or component leads into miniature circuits. Stainless Steel.

Extra Long Tweezer
Straight points. 6-7/8" OAL.
No. 758TW370 ..... **$4.70**

Corrugated points; serrated, non-slip grip. 7" OAL.
No. 758TW362 ..... **$4.50**



Tweezer, Flat Tips. 5" OAL.
No. 758TW394 ..... SALE **$4.00**

Smooth, curved 1" points . 6-3/4" OAL.
No. 758TW366 ..... **$5.30**

Slotted Filament Holder Specially designed with grooved tip for micro-assembly and testing. Locking device eliminates strain on fingers. 6" OAL.
No. 758TW034 ..... **$6.90**

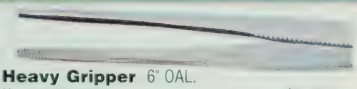
Angular Filament Holder 6" OAL.
No. 758TW016 ..... **$6.50**

Tweezer Kit - 3 pc Kit
For the shop or laboratory. Kit contains one each of three tweezers: blunt point slide-locking; smooth point; fine point nickel-plated. **(USA)**
No. 758TW551 ..... **$23.95**

Slide Lock Tweezer
One-handed operation on this locking tweezer. Strong serrated medium tips. 5-1/2" OAL.
No. 758TW386 ..... **$4.70**

Slide Lock Tweezer
Smooth, wide points. 6-1/2" OAL.
No. 758TW398 ..... **$5.30**

Serrated Points – Chrome Plated
Non-slip, corrugated grip. 5-1/2" OAL
No. 758TW378 Fine Point **$12.85**
No. 758TW374 Medium point **$9.10**



Heavy Gripper 6" OAL.
No. 758TW026 ..... **$6.50**
No. 758TW028 Teflon Coated **$10.75**

Boley-Style
AA Strong, fine points. 4-3/4" OAL.
No. 758TW338 ..... **$6.00**
No. 758TW340 Teflon Coated **$9.95**

Boley-Style
BB Hollow handle, lightweight, fine pTs. 4-3/4" OAL.
No. 758TW342 Nickel **$4.50**

Lock-Type Filament Holder 6" OAL.
No. 758TW024 ..... **$6.50**

Filament Holder (NSN 5120-01-019-7934) 6" OAL.
No. 758TW012 ..... **$6.25**
No. 758TW014 Teflon Coated..... **$10.25**

"Carbofib" Tip - QUANTITY DISCOUNTS

"Carbofib" Tweezers

Conductive, synthetic carbon fiber "Carbofib" tips. With anti-magnetic steel grips. Sturdy, but soft and non-scratching. Temperature resistance: 520°F/270°C.

00 Round Points
5" OAL (125mm).
No. 758TW009 $19.95

3X Self closing
5" OAL (125mm).
No. 758TW013 $21.95

3C Sharp Points
4-1/4" OAL (110mm).
No. 758TW011 $19.95

2A Round Points
5" OAL (125mm).
No. 758TW008 $19.95

SCF Sharp Points
5" OAL (125mm)
No. 758TW017 $22.95

5X Self closing
5" OAL (125mm).
No. 758TW019 $22.95

Ceramic-Tip Tweezers

For Contamination-Free Applications!

Quick Change Ceramic-Tip Tweezers

These lightweight zirconia ceramic replaceable tip tweezers feature aluminum handles and precision tips. They offer a surface resistivity of 1 x $10^{12}\Omega$ sq. and perform in temperatures up to 1000°C. They are contamination free, solder resistant, wear resistant and antimagnetic. To replace tips simply: remove old tips; screw new tip in finger-tight; Pinch tip sides between your thumb & forefinger; pinch tip sides against hard surface; pinch again; check alignment, then tighten screw. 5-1/2" OAL. (Switzerland)

No. 464TW071 Ultra Fine **$49.95**
Replacement Tips
No. 464TW0071 Ultra Fine **$28.90**

No. 464TW073 Standard **$49.95**
Replacement Tips
No. 464TW0073 Standard **$28.90**

No. 464TW072 Fine **$49.95**
Replacement Tips
No. 464TW0072 Fine..... **$28.90**

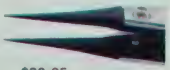
No. 464TW074 Flat Tip **$49.00**
Replacement Tips
No. 464TW0074 Flat Tip **$28.90**

Swiss Carbon-Tip Tweezers

Quick Change Carbon Soft-Tip Tweezers

Specially designed for the electronics industry, these ESD-safe tweezers are made of Anti-magnetic, Anti-Acid Stainless Steel with replaceable Carbon fiber tips. (*Replacement Tip Kit includes 2 tips) 5" OAL (125mm).* (Switzerland)

5 Style Type 5
Extra fine tip to handle and position small parts.
No. 758TW315 ..... **$29.25**
No. 758TW141 Repl. Tips **$6.55**



2A Style Type 2A
Flat tip to handle and position small parts.
No. 758TW143 ..... **$29.25**
No. 758TW145 Repl. Tips..... **$6.55**

2AB Style Type 2AB
Curved flat tip to handle and position small parts.
No. 758TW158 ..... **$29.25**
No. 758TW153 Repl. Tips **$6.55**

Style Type Curved
Curved tip to handle and position quad packs and flat parts. 0.12"(3mm) to .66" (17mm) Opening
No. 758TW121 ..... **$29.25**
No. 758TW131 Repl. Tips **$6.55**

Techni-Tool® SMD Handling Tweezers

These anti-magnetic surgical grade, satin antiglare finish stainless steel tweezers offer smooth handling and positioning of all your SMD components. (Switzerland)

SM100SA Reverse action. For handling PCBs with SMDs. 4-1/2" OAL.
No. 464TW100 ..... **$21.10**

SM101SA Reverse action. For soldering and desoldering 8, 14, or 16 lead SMDs. 4-1/2" OAL.
No. 464TW101 ..... **$21.10**

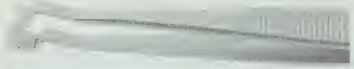
SM102SA Reverse action. For soldering and desoldering 20, 28, 44 and 68 LCCC and PLCC pad devices. 4-1/2" OAL.
No. 464TW102 ..... **$21.10**

SM103SA For handling and positioning 2 and 3 lead SOT packages at 45° angle. 4-1/2" OAL.
No. 464TW103 ..... **$21.10**

SM104SA For handing and positioning 3 lead SOT packages, monolithic chip capacitors, etc. 4-3/4" OAL.
No. 844TW104 ..... **$21.10**

SM105SA Special design for positioning all SOT packages vertically. 4-3/4" OAL.
No. 464TW105 ..... **$21.10**

2AD **S-Shaped Bent Tip** 4-1/16" OAL.
No. 758TW066 S.S. .... Reg. ~~$20.00~~ **SALE $13.50**



Wafer Tweezers 3-1/4" OAL. Stainless Steel
No. 758TW221 ..... **$25.40**

No-Mar Wafer Tweezer
With smooth, wide tip. 4-3/4" OAL.
No. 758TW106 Stainless Steel **$15.95**
No. 758TW108 Teflon Coated **$19.95**

SM106SA For positioning all SOT packages horizontally. With flat base tips (4mm long). 4-3/4" OAL.
No. 844TW106 ..... **$21.10**

SM107SA SMD tweezer for positioning all flat devices at 60° angle. 4-3/4" OAL.
No. 464TW107 ..... **$21.10**

SM108SA For positioning and soldering 1mm wide components. 4-3/4" OAL.
No. 844TW108 ..... **$21.10**

SM109SA For positioning and soldering 1mm wide components with 45° tips. Anti-crush feature. 4-3/4" OAL.
No. 464TW109 ..... **$21.10**

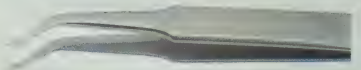
SM110SA SMD tweezer for positioning monolithic chip capacitors. Grooved tips. 4-3/4" OAL.
No. 464TW110 ..... **$21.10**

SM111SA For positioning 5mm monolithic chip capacitors with flat base. Grooved tips (2mm long). 4-3/4" OAL.
No. 464TW111 ..... **$21.10**

Flat Curved 4-11/16" OAL.
No. 758TW100 .....Reg. ~~$24.95~~ **SALE $17.95**

355 Stainless Steel Wafer Handling Tweezer. 4-7/8" OAL.
No. 758TW114 ..... **$24.90**

SM112SA For positioning 5mm monolithic chip capacitors at 60° angle. Grooved tips. 4-3/4" OAL.
No. 844TW112 ..... **$21.10**



SM113SA 3mm long tips bent at 60° angle. One forked blade for lead entry. Strong hold for positioning and soldering. 4-3/4" OAL.
No. 464TW113 ..... **$21.10**

SM114SA Straight tip for vertical holding. One forked blade for lead entry. Strong hold for positioning and soldering. 4-3/4" OAL.
No. 464TW114 ..... **$21.10**

SM115SA Grooved tips at 30° angled for holding and positioning cylindrical devices. Up to 1mm dia. 4-3/4" OAL.
No. 844TW115 ..... **$21.10**

SM116SA Grooved straight tips. Used for vertical positioning of cylindrical devices. 1mm dia. or more. 4-3/4" OAL.
No. 464TW116 ..... **$21.10**

SM117SA For positioning SOT packages at 30° angle. 4-3/4" OAL.
No. 844TW117 ..... **$21.10**

Smooth Surface For semi-conductor Wafers, with stop pin. 4-7/8" (125mm) OAL.
No. 758TW102 .....Reg. ~~$21.95~~ **SALE $14.95**

3/32" Narrow Tip
Set at a 30% angle. 4-1/4" (115mm) OAL.
No. 758TW230 S.S. **$25.50**
No. 758TW232 Teflon Coated S.S. **$29.95**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

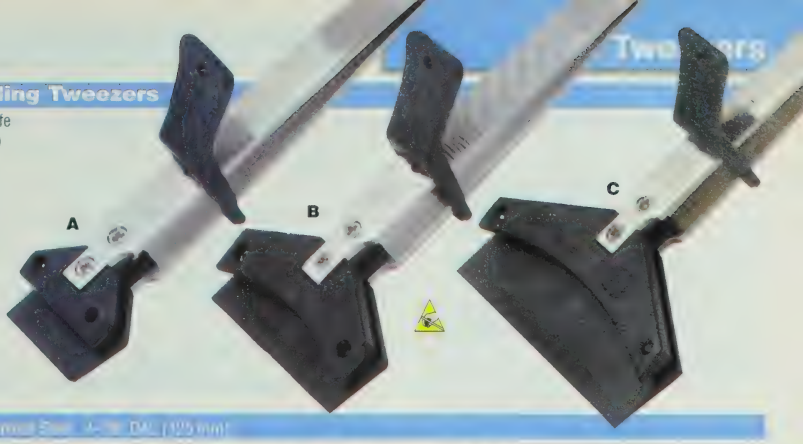
ESD-Safe Carbon Wafer Handling Tweezers

These tweezers are ESD safe with patented ESD-safe replacement tips and EZ lever handle. (Switzerland)

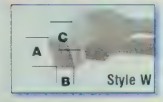
A. 4" to 6" Tweezer & Tip
No. 758TW508 ..... **$39.00**
4" to 6" Replacement Tips
No. 758TW159 ..... **$13.00**

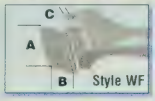
B. 6" to 10" Tweezer & Tip
No. 758TW509 ..... **$41.55**
6" to 10" Replacement Tips
No. 758TW591 ..... **$15.60**

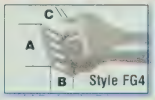
C. 10" to 15" Tweezer & Tip
No. 758TW511 ..... **$44.15**
10" to 15" Replacement Tips
No. 758TW513 ..... **$18.20**

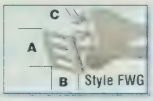


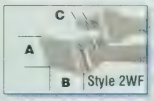
Wafer Handling Tweezers

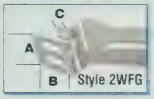


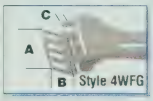












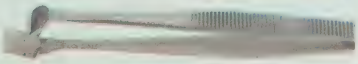
No.	Style	Dimensions A In.	A mm	B In.	B mm	C In.	C mm	PRICE
758TW044	W	.24	6	.39	10	.24	6	$20.00
758TW174	W	.47	12	.32	8	.08	2	$16.00
758TW178	WF	.47	12	.39	10	.08	2	$16.00
758TW191	WF	.59	15	.36	9	.125	3	$29.10
758TW138	FG3	.39	10	.39	10	.08	2	$19.95
758TW148	FG4	.47	12	.39	10	.08	2	$19.95
758TW162	3W	-	9.5	-	10	-	2.5	$16.00
758TW144	WF	-	12	-	10.5	-	-	$19.95
758TW166	FWG	.39	10	.39	10	.08	2	$16.00
758TW068	2WF	.24	6	.39	10	.08	2	$20.60
758TW070	2WFG	.24	6	.39	10	.08	2	$20.60
758TW182	4WFG	.47	12	.39	10	.08	2	$12.60

For 2" Wafers
Will not chip the wafer's edge. Teflon Coated S.S.
No. 758TW152 ..... **$21.90**

For 2" to 3" Wafers
Two pins stop wafer. Extended blade grips edge.
No. 758TW134
4-7/8" (125mm) OAL..Reg. ~~$19.95~~ SALE **$14.95**
No. 758TW135
Teflon Coated S.S. ....Reg. ~~$23.95~~ SALE **$19.95**

For 3" Wafers
4-7/8" (125mm) OAL. Teflon Coated S.S.
No. 758TW156 ..... **$21.90**

Oblong Jaws. 4-1/4" OAL
No. 758TW088 ..... **$5.25**



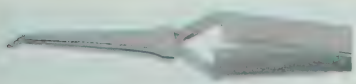
38S For 3" Wafers 4-1/2"OAL.
No. 474TW011 ..... **$16.50**

Reverse Action Tweezers For SMD Rework

SMD Reverse Action Tweezers

Stainless Steel, Anti-Magnetic, Anti-Acid -
Specifically designed for applications where high precision, self-closing action is required (e.g. microscopy).

7 Bent Tip. 4-1/2" OAL.
No. 758TW607 ..... **$23.75**



Miniature tips allow firm grip on small SMD components, plus ease of positioning in confined areas. Self-closing tweezer for SMD's Wafers: Smooth bent jaws, finely tapered. 4-3/4" OAL.
No. 758TW002 ..... **$22.75**

2AX Blunt Tip. 4-3/4" OAL.
No. 758TW602 ..... **$25.25**

5 4-3/8" OAL.
No. 758TW605 ..... **$23.75**

Economy Reverse Action Tweezer
Straight 6" long, complete with insulated handles, non-serrated straight jaws. Stainless steel.
No. 758TW036 ..... **$5.95**

Self Locking Tweezers
Handles are squeezed to open points
Blunt serrated point. 6-1/2" OAL.
No. 758TW402 ..... **$5.50**

Self Locking Tweezers
Small blades with sharp, smooth points. 4-3/4" OAL.
No. 758TW410 ..... **$5.50**

Self-Locking Tweezers
Handles are squeezed to open points.
Small blades, sharp smooth points. 4-3/4" OAL
No. 758TW518 ..... **$17.95**

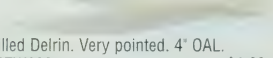
Tweezers

Plastic Production Tweezers –
QUANTITY DISCOUNTS: 1-10: Net 11-100: 10% 101-499: 20%

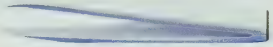
Glass-filled Delrin. Special thin, flat points. 4-3/8" OAL.
No. 420TW010 ..... **$2.65**

Linear polyethylene. Acid-resistant, special thin, flat points. 4-3/8" OAL.
No. 420TW012 ..... **$2.65**

Soft Green Delrin. 4-3/8" OAL.
No. 420TW018 ..... **$2.65**



Glass-filled Delrin. Very pointed. 4" OAL.
No. 420TW030 ..... **$4.00**



Fluorocarbon, acid resistant. Serrated point. 4-3/8" OAL.
No. 420TW016 ..... **$4.60**

Glass-filled Delrin. Special superfine points. 4-1/2" OAL.
No. 344TW012 ..... **$3.50**

Glass-filled Delrin. Medium fine points. 4-1/2" OAL.
No. 344TW010 ..... **$3.65**

Glass-filled Delrin. Extra wide, thin points. 4-3/16" OAL.
No. 420PL010 ..... **$2.65**

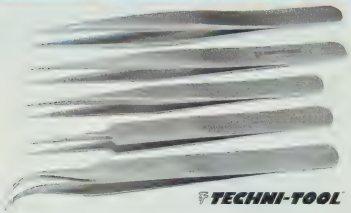
Fiber-filled plastic tweezers give gentle positive grip for die attaching. 4-3/8" long by 7/16" at body.
No. 344TW014 ..... **$4.00**

Angled tip with built-in stop – for wafer handling. Glass-filled Delrin. Tips will not open when extra pressure is applied. 4-3/4" OAL.
No. 344TW016 ..... **$3.70**

Carbon-filled polypropylene tweezer, **conductive & static control**. Popular type 3 shape. 4-1/4" OAL.
No. 758TW475 ..... **$4.00**

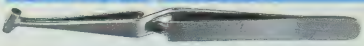
Conductive Tweezer Set - 4 pc
Wafer and Die SMT handling set. Non-metallic, acid resistant. Heat resistant to 520°F (270°C). Conductive (10^{-3}/sq. cm). (Switzerland)
C. No. 758TW006 ..... **$23.00**

Techni-Tool Tweezer Kit



Swiss Precision Tweezer Kit
Techni-Tool tweezers, Swiss-made of a special anti-magnetic, anti-acid steel. Kit consists of types 1, 5, 3C, 00, and 7 tweezers in a vinyl pouch. (Switzerland)
No. 758TW546 ..... **$94.85**

Clauss Anti-Wicking Tweezers



These reverse-action, anti-wicking tweezers are made from copper/beryllium alloy and are chrome plated for solder-free operation. Heads are drilled to precise tolerances for positive conductor contact. An absolute necessity for Mil Spec work. **(USA)**

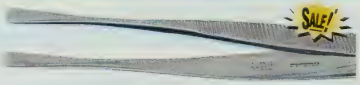
No. 250TW014 AWG Size 18 ..... **$22.15**
No. 250TW016 AWG Size 20 ..... **$22.15**
No. 250TW018 AWG Size 22 ..... **$22.15**
No. 250TW020 AWG Size 24 ..... **$22.15**
No. 250TW022 AWG Size 26 ..... **$22.15**
No. 250TW024 AWG Size 28 ..... **$22.15**
No. 250TW026 AWG Size 30 ..... **$22.15**

Twipping Tweezers - Stainless Steel

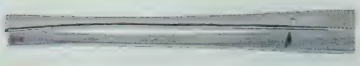
Smooth gripping faces (inside) for holding components. Inserting and desoldering vertical components from 2.5 up to 5mm. Lgth: 5-3/4" OAL. (Pakistan)
No. 758TW196 ..... **$9.95**
A. No. 758TW197 Teflon-Coated **$9.95**

Economy Wafer Tweezers - Stainless Steel

Offset Jaws. 4" OAL
No. 758TW092 ..... **$5.25**
Offset Jaws. 4-3/4" OAL.
No. 758TW122 ..... **$18.70**
Teflon coated 4-1/8" OAL.
No. 758TW094 .....Reg. ~~$18.00~~ SALE **$4.95**



No. 758TW096 Radius Jaws. 4-1/2" OAL.. **$5.25**
No. 758TW098 Teflon Coated ..... ~~$7.50~~
SALE $5.00



35SAL Extra-long, special 35SAL. 12" OAL.
No. 758TW116 ..... **$5.25**

Carbon Steel Cutting Tweezers

15A **Carbon Steel Cutting Tweezer**

Fine cutting tweezers, strong nipper-like blades. Cutting edges angle to a point to cut close on super fine wire. Length of jaws 9/16" x 1/16"W. 4-1/2" OAL.
No. 758TW326 ..... **$37.00**

15AGW **Carbon Steel Cutting Tweezer**

Same as type No. 758TW326. Parallel cutting edge. Length of jaws 9/16" x 1/16"W. 4-3/4" OAL.
No. 758TW330 ..... **$22.30**

Utility Tweezers

Utility Tweezer
A fine-plated, straight, thin tweezer with narrow tips—ideal for precision handling & separating fine diameter wires. 4-1/2" OAL (Switzerland)
No. 758TW010 ..... **$7.95**

Filament Holder
Made of fine stainless steel, curved, strong, serrating tips make this an excellent tool for bending & insertion of fine diameter wires and component leads in miniaturized circuits. 6" OAL (Switzerland)
No. 758TW168 ..... **$5.75**

2ASA **Label Handling Tweezer**
A special non-stick coating on the Stainless Steel tweezer tips prevents adhesive labels and tapes from sticking to the working area. 4-3/4" OAL. (Switzerland)
No. 272TW031 ..... **$24.40**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Micro-Assembly Tweezers

QUANTITY DISCOUNTS: 1-11: List 12-24: 10% 25-49: 15% 50+ Call For Quotations

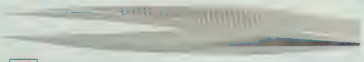
F Flattened Tips. 120mm OAL. (4-1/2")
No. 758TW240 Stainless Steel **$22.90**
No. 758TW242 Teflon Coated S.S. **$26.95**

2A w/anti-crush feature. 120mm OAL (4-1/2").
No. 758TW192 Stainless Steel **$21.90**

5AR For die attaching. Stainless steel. 4-5/8" OAL.
No. 758TW202 Stainless Steel **$24.00**

Slotted beak with round tips. 4-1/8" OAL.
No. 676TW250..... **$27.45**

MM Assembly tweezer, extra-long blades; fine, beveled points. 5-1/4" OAL.
No. 758TW538 Stainless Steel **$12.95**



AC Strong, short, heavy blade tweezers, serrated handle for firm grip. 4-3/8" OAL.
No. 758TW526 Stainless Steel **$21.50**
No. 758TW528 Teflon Coated **$25.95**

AM Anti-magnetic **Brass** version of pattern MM. Excellent for handling parts that scratch easily. 5" OAL.
No. 758TW236 Brass **$22.95**
No. 758TW238 Teflon Coated Brass .. **$26.95**

GG Heavy-duty tweezer, long blades that break sharply from the body to fine rounded points. 5" OAL.
No. 758TW534 Stainless Steel **$15.95**

H General coarse work, short stubby blades. Stainless Steel. 3-1/2" OAL.
No. 758TW510 ..... **$18.15**

11 Tapered shanks with beveled edges and sharp points. 4-3/4" OAL.
No. 758TW272 Nickel Non-Mar **$17.95**
No. 758TW274 Nickel Teflon Coated **$21.95**

12 For miniature and micro-miniature parts. They have tapered shanks with beveled edges and honed points. 4-3/4" OAL.
No. 758TW276 Nickel **$15.95**
No. 758TW278 Teflon Coated Nickel **$18.95**

AA Fine points with beveled edges. 5" OAL.
No. 758TW530 Stainless Steel..... **$12.95**
No. 758TW532 Teflon Coated S.S. .. **$16.90**

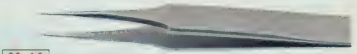
Chip handling tweezer, double angle for work under magnification. Machined ledge on contact surface to get under SMDs. 4-3/4" OAL.
No. 758TW003 ..... **$18.90**

Techni-Tool® Miniature Production Tweezers

Anti-magnetic/anti-acid Stainless Steel micro tweezers for microelectronic assembly. Use where a fine tip is needed without the excess bulk of long tweezers.

M-3C-SC Tapered shank, beveled edges, extremely sharp points. 2-3/4" OAL.
No. 758TW244 ..... **$15.95**

M-2-SA Tapered blades for general use. 3-1/2" OAL.
No. 758TW250 ..... **$19.95**



M-4A Needle-like tips, indented shanks, beveled edges. Stainless steel. 3-1/2" OAL.
No. 758TW246..... **$17.60**

M-00D Tapered shank, medium point. Serrated tips.
No. 758TW248 3-1/8" OAL **$20.15**

M-2SA Designed for wafer handling. Anti-acid stainless steel. 2-3/4" OAL.
No. 758TW252 ..... **$19.95**

M-HD Heavy-duty serrations on tips. 3-1/4" OAL.
No. 758TW254 ..... **$20.15**

Economy Micro-Assembly Tweezers

These hand-crafted, non-magnetic, stainless steel tweezers have precision tips and are designed to meet the rigors of everyday use in micro-assembly production. 4-1/2" OAL. (Pakistan)
No. 758TW043 5/set..(1-11) **$49.95** (12+) **$44.96**

3 **No. 758TW300** (1-11) **$10.25** (12+) **$9.23**

5 **No. 758TW051** (1-11) **$11.95** (12+) **$10.76**

2A **No. 758TW020** (1-11) **$9.95** (12+) **$8.96**

3C **No. 758TW033** (1-11) **$9.80** (12+) **$8.82**

7 **No. 758TW700** (1-11) **$10.25** (12+) **$9.23**

Erem Ergonomic Tweezers

Work with ultimate comfort, control, and ESD protection. These ergonomic tweezers are designed with an ESD cushion grip and are ultra anti-magnetic and ultra anti-acid. (Switzerland)

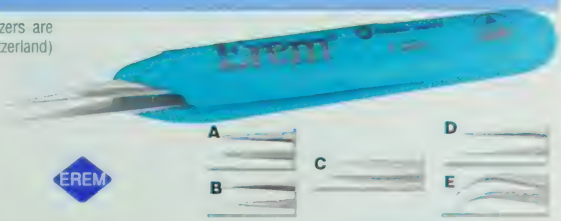
2ASA **Flat, round precision tips**
A. No. 272TW002..... **$19.90**

3CSA **Straight, high precision tips**
B. No. 272TW003 ..... **$19.90**

00SA **Straight, fine strong precision tips**
C. No. 272TW004..... **$19.90**

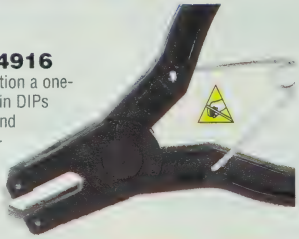
5SA **Straight, thin tapered ultra-fine high precision tips**
D. No. 272TW005..... **$23.45**

7SA **Curved, fine point high precision tips**
E. No. 272TW006..... **$24.40**



NSN 5120-00-168-5278

Techni-Stat® DIP Extractor Model 4916



This self-actuating tool makes extraction a one-handed operation. It removes 4-48 pin DIPs vertically so it does not bend leads, and can be used to extract all types of components. Insulated for live board work – teeth provide heat sink and shorting bar. Use as close as .250" for dense board work. Handle can be used to straighten leads on DIP. 5-3/4" OAL. **(USA)**
Anti-Static ABS
A. No. 758TT066 .. $17.95

TECHNI-STAT

PGA Package Metal Extraction Tool

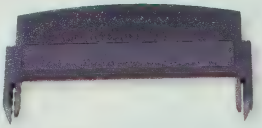
No. 104PR113 (5 blades) **$10.80**
No. 104PR133 (10 blades) .. **$11.45**
No. 104PR134 (13 blades) .. **$14.30**
No. 104PR135 (16 blades) .. **$16.85**

Speedy Bend

Radiused edges, eliminates scarring of leads. Graduated in .050" increments; made of high impact red cycolac plastic. Size: 5-1/2" long.

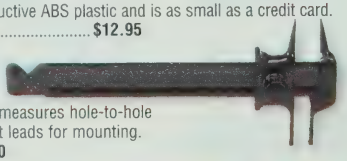
	(1-11)	(12-50)	(51-100)
No. 664PR012 1 Watt, 2 Watt	**$3.20**	**$2.75**	**$2.45**
No. 664ST010 1/4 Watt, 1/2 Watt, Diodes	**$2.80**	**$2.30**	**$2.00**

SIMM Remover



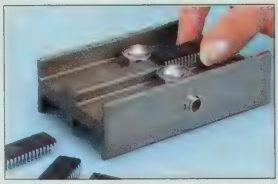
Simplifies SIMM removal. Protects computer components from static electricity. Costs less than replacing a damaged motherboard. The Simm Remover is a hand-held tool that slides over the edge of an installed SIMM. It engages the hole in the SIMM and disengages the SIMM socket's latches without stressing the socket or its connections. The SIMM Remover is made of non-conductive ABS plastic and is as small as a credit card.
No. 740PR010 ..... $12.95

Pace Comform I®

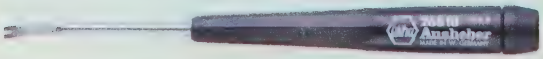


Component-forming tool that measures hole-to-hole spacing and forms component leads for mounting.
No. 612PA6016 ..... $15.50

DIP Reformer



Reforms the leads on .300" and .600" DIPs for easier PCB insertion. Roller bearing with gap adjustment from 0 to .060" (factory set at .017"). Fabricated in hardcoat anodized aluminum. ESD safe-will not generate static; a snap for attaching a ground strap is included. **(USA)**
No. 358PR360 ..... $75.00

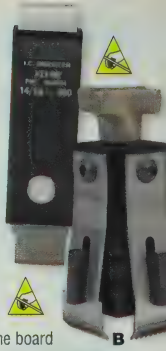


Chip Lifter

Blade chrome-vanadium-molybdenum-steel, hardened, chrome-plated. Slender handle high quality plastic, impact resistant, black, cadmium free. 5.71" OAL.
No. 881SC810 ..... $5.90

A. Techni-Stat® Little Dipper® Dip Inserter

TECHNI-STAT



Use with zero force sockets. Aligns leads by the unique action of the tool. The adjustment screw allows the user to make corrections for lead spacing. Will not wear out–aluminum and stainless steel construction. Lifetime Guarantee.

TT No.	Pin Cap	O.C. Body Width	Chip Thickness	PRICE
4990	14/16	.300"	.095" x .150"	$14.90
4990B	18	.300"	.095" x .150"	$29.95
4991	6/8	.300"	.095" x .150"	$19.95
4992	22	.400"	.095" x .150"	$29.95
4992A	24	.600"	.095" x .150"	$29.95
4994	36/40	.600"	.095" x .150"	$29.95

B. Techni-Stat® PGA Extractor

These precision-made tools gently lift the entire PGA out of the board or socket. Burned-in or oxidized pin grids can easily be extracted without damage to the board or socket. The cam-actuated tool acts an all four sides at once. The extraction force is equally distributed between the board (or socket) and the device itself. Safety for static sensitive devices is assured by a drain strip locator and all metal construction.

TT No.	Array Size	PRICE	TT No.	Array Size	PRICE
PGA-2-10	10 x 10	$85.00	PGA-3-14	14 x 14	$129.95
PGA-2-11	11 x 11	$85.00	PGA-3-15	15 x 15	$129.95
PGA-2-12	12 x 12	$85.00	PGA-4-16	16 x 16	$129.95

Techni-Stat® PGA Extractor Tool

Easy-to-use – no prior adjustment. Adjust to the size of the socket. ESD Safe. For devices from 10 x 10 pins to 24 x 24 pin sizes. Minimum space requirements 2 to 4mm. (.78" to 1.57"). PGA-Extractor 1- 4 claws, 4 supports.
No. 560PR281 ..... $475.95

PGA Extraction And Insertion Tool

Adjustable for 9 x 9 pins to 26 x 26 pin sizes. Easily accesses sockets in densely populated areas (as close as .100"). Storage case included.
No. 606PR001 ..... $225.00

Special Low Price!

For Prototypes and Short Run Production!

Lead Bender

This lead bender for electronic components 1/4 watt and larger features finer pitch leadscrew for "micro" adjustment of jaws. Totally eliminates trial and error bending of component leads. Bent leads are free of all flat spots, nicks and surface blemishes. Fast, continuously adjustable setting of space between bends. Made from hard anodized aluminum for maximum strength and wear.
No. 428ST012 ..... $49.95

Rear Release

Tweezers-Rear Release/Rear Insertion Type Connectors

TT No.	Size	Type	Military Part No.	PRICE
650PR501	22M	Insert	M81969/8-01	$59.95
650PR781	20	Insert	M81969/8-05	$59.95
650PR091	16	Insert	M81969/8-07	$59.95
650PR601	12	Insert	M81969/8-09	$59.95
650PR502	22M	Ext.	M81969/8-02	$59.95
650PR782	20	Ext.	M81969/8-06	$59.95
650PR092	16	Ext.	M81969/8-08	$59.95
650PR602	12	Ext.	M81969/8-10	$59.95

Caps Off Keycap Puller

No more struggling – just push it over the keycap and lift. Even keycaps in tight spaces can be removed instantly. Won't mar appearance. Works great on virtually every keycap from 3/4" single units to 2.5" triple units – square, rectangular, round, or triangular.
No. 287PR010 ..... $4.95

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

PLCC Extraction Tool

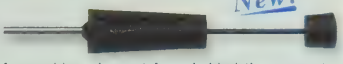
Self-opening spring action for more user comfort. Fits all size PLCC carriers that are JEDED sockets from 20 to 84 leads.

No. 560PR291 (ESD safe)..... **$12.35**

Non-ESD Pull Tool

For PLCC 20-84 pins

No. 606PR066 (Non-ESD safe) **$7.95**



Pin Removal

A plunger style pin extractor for pushing pins out from behind the connector blocks for contact sizes 16-20. 3" OAL **(USA)**

No. 479PR592 ..... **$12.70**

Extraction Tools

Low Profile PLCC Sockets, Surface Mount.

No. 104PR011 (20 Positions).... **$107.85**

No. 104PR045 (28 Positions).... **$109.10**

No. 104PR198 (44 Positions) **$45.55**

No. 104PR049 (52 Positions).... **$110.00**

No. 104PR026 (68 Positions) **$45.55**

No. 104PR268 (84 Positions) **$45.55**

7-in-1 Insertion & Extraction Tool

Includes: One insertion/extraction handle w/cap, one hex wrench, one plug, & four insertion/extraction tips.

No. 104PR010 ..... **$11.40**

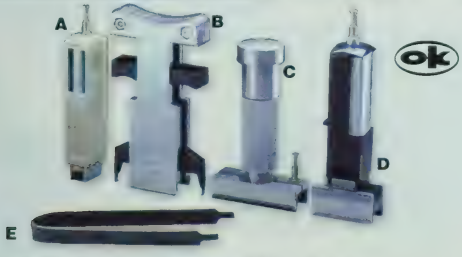
Pin & Socket Insertion/Extraction Tool

This is the tool you need to install and remove pin and socket contacts. Use with contact size 20DM & 20DF & AWG 20-24. *Meets Mil Spec.* **(USA)**

No. 104CO726 ..... **$3.95**

Insertion/Extraction Tool 6/Pk

TT No.	Size	Military Part No.	Connector Application	PRICE/6 pk.
650PR141	22M	M81969/14-01	*MIL-C-5015 "3450" Series MIL-C-26482 Series 2 MIL-C-38999 All Series MIL-C-81703 Series III MIL-T-81714 MIL-C-83723 Series II & III MIL-C-83733 All Series*	$9.95
650PR142	20	M81969/14-02		$9.95
650PR143	16	M81969/14-03		$13.50
650PR144	12	M81969/14-04		$13.50



IC Insertion/Extraction Kit - 5 pc

14-16 kit includes: CMOS Inserter, 24-28 CMOS Inserter: 36-40 CMOS Inserter, 8-24 Extractor, and 24-40 CMOS Extractor.

No. 606WI1162 Extractor, 5 pc Kit **$69.95**

A. No. 606WI752 14-16 Pins Inserter Only **$19.00**

B. No. 606MI026 24-40 Pins Extractor Only **$21.90**

C. No. 606WI756 36-40 Pins Inserter Only **$21.50**

D. No. 606WI753 24-28 Pins Inserter Only **$19.00**

E. No. 606WI548 8-24 Pins Extractor Only **$2.95**

JONARD Contact Kits - 3 pc

Insert & Remove contacts on all types of connectors. Kit contains one each: A-12, A-16, A-20 contact insertion tools. Color-coded contact sizes. *Meets MIL-C-26482 & 26500.*

No. 479PR260 $110.95

Kit contains one each: R-12, R-16, R-20 contact removal tools.

No. 479PR026.. $129.80

SMT Extraction Tool

(For 20 thru 84 Pos. Sockets) This tool is designed to remove PLCC from Low Profile Surface Mount Sockets. Contoured and angled for easy chip extraction.

No. 104PR154 ..... **$.80**

Pin Extractor Tool

For easy removal of male or female pins from nylon connectors, tools are spring loaded and cause automatic collapse of the locking flanges before pushing the pin from the connector housing. Two-stage action assures a quick process without damage to nylon housing or the pin assembly. (All metal construction)

No. 388PR650 For .062" dia. pins **$13.25**

No. 388PR653 For .093" dia. pins..... **$13.25**

Contact Removal & Insertion Kit - 3 pc

MIL Spec insertion & removal tools for service of Cannon, Amphenol, Burndy, connectors, etc. Color-coded aluminum handles with machined, tubular steel end. For front release contacts. *Meets MIL-C-26500 & MIL-C-26482.*

A. No. 650PR650 Removal Kit #12, 16, 20 ..... **$89.95**

B. No. 650PR652 Insertion Kit #12, 16, 20 ..... **$78.50**

Electrical Contact Assembly Tools

Metal Front Release/Rear Insertion. *Tools for MIL-C 5015, MIL-C-26500, MIL-26482*

Style	TT No.	Size	Color	Military Part No.	Insert	Release	PRICE
A	650PR861	20	Red	M81969/17-03	x		$28.00
A	650PR001	16	Blue	M81969/17-04	x		$31.50
A	650PR451	12	Gold	M81969/17-05	x		$31.50
B	650PR802	20	Red	M81969/19-07		x	$31.50
B	650PR114	16	Blue	M81969/19-01		x	$31.50
B	650PR612	12	Gold	M81969/19-09		x	$31.50

MityLite® Laser Spot™ Flashlight

FM

The MityLite™ Laser Spot™ is unbreakable, 4,000 C.P. focused-beam Flashlight; 400% brighter than ordinary pocket lights *(FM, CSA, AUS, EX Approved).* **Includes:** shirt clip, Laser Spot lamp module, and two AAA-cell alkaline batteries. 4-3/4"OAL. **Color:** Black.
Lifetime Guarantee. **(USA)**
No. 603LI900 ..... **$9.75**
Mity Lite Replacement Bulbs
No. 603AC974 ..... **$4.40**

Disposable Clip-Lite

Penlight, sealed for longer life. Created to go everywhere; all purpose–extremely compact. Press clip to light. Batteries included. **(USA)**
No. 888IN016 ..... **$1.70**

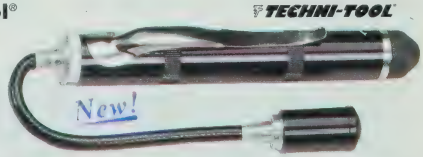
Bend-A-Light™ Kit

High-intensity light tool that bends to any configuration. Incredibly brilliant light beam penetrates anywhere. **Kit includes:** Vinyl case; extension cover; Mini-Pro light; illuminating, heavy-duty pick-up; extension mirror; inspection light clip on magnet. 18" OAL.
No. 477IN010 ..... **$32.80**

New!

Techni-Tool® Flex-Lite®

Specially designed inspection light provides illumination in small openings. It features one of the smallest cable and bulb combinations in the mechanical field. The prefocused bulb and cable can be inserted into a 9/32" aperture. **Features:** heavy gauge solid copper core; sealed push button switch; magnifying bulb; bulldog tough clip. Requires "AA" battery (not included). 6" OAL. **(USA)**
No. 370IN106 ..... **$29.95**
Bulb
No. 370AC1767 ..... **$3.25**



New!

Techni-Tool® PRO-D Flex-Lite®

The PRO-D puts an adjustable beam where you need it. Optical glass, focusing lens enables simple change of beam from broad - for large objects or areas - to concentrated, spot lighting of intricate areas or tight, inaccessible openings. Features push button switch, and constructed of anodized aluminum. Requires 2 "AA" battery (not included). 3.5" OAL. **(USA)**
No. 370IN100 ..... **$29.95**
Bulb
No. 370AC245 (245) **$1.75**

New!

Adjustable Illuminating Mirror

Designed for the PRO-D Flex-Lite® the swivel ball joints hold firmly in any position. Clear mirror has stainless steel back. Easy slit sleeve mounting. Mirror Dia. 1-1/4", 4' OAL. **(USA)**
No. 370IN2110 ..... **$14.95**

Mini MagLite® Flashlight Sets

Don't let their size deceive you! These flashlights feature: Linear-Focus™ adjustable beam that maintains maxi candlepower at 10 to 30 feet away; a quick, easy replacement, spare lamp in the tail cap; and a precision-molded reflector. Precision-crafted anodized aluminum. Models AA & AAA. ***Lifetime Warranty.*** **(USA)**

Mini MagLite® AA Flashlight
This flashlight features a fast-focus beam that adjusts from spot to flood with a turn of the head. Presentation Box includes flashlight and two Alkaline "AA" Energizer® batteries. 5-3/4" OAL.
No. 528LI014 ..... **$13.25**

Mini MagLite® AA Combo Pack
Includes ***No. 528LI014*** flashlight, pocket clip, lanyard wrist, lens holder, red, amber and clear lenses, and two Alkaline AA Energizer® batteries. 5-3/4" OAL.
No. 528LI020 ..... **$15.90**

AA Holster Black, Nylon Full Flap
No. 528LI016 ..... **$3.95**

Mini MagLite® AAA Flashlight
This mini flashlight features: adjustable "spot-to-flood" beam, spare lamp, pocket clip, two "AAA" Energizer® batteries in handy case. 5" OAL.
No. 528LI010 ..... **$12.95**

AAA Holster Black, Nylon Full Flap
No. 528LI018 ..... **$3.25**

2 Lamps Per Card!

Mini MagLite® Replacement Lamps

Mini MagLite AA® Lamp	No. 528LI026	$2.15
Mini MagLite AAA® Lamp	No. 528LI024	$2.15
Solitaire Lamp	No. 528LI022	$2.15

New!

Stylus™ 3 Pen Light

The Stylus™ 3 Pen Light is perfect for on the job use and field operations. Don't let its size fool you. This 1.1 once pen light throws a powerful focus beam of bright white bulb lights and runs... over 10 hours on 3 AAAA alkaline batteries. Its waterproof machined aluminum case has a momentary blink switch plus constant 'on'. ***Lifetime Warranty.*** Black **(USA)**
No. 741PR100 ..... **$15.65**

Super MityLite® & PeliKnife™ Pack

This combo includes the Super MityLite™ Laser Spot™ unbreakable, 6,000 C.P., focused-beam Flashlight; 600% brighter than ordinary pocket lights. 4-3/4" OAL *(FM, CSA and EX Approved).* Plus the PeliKnife™ Lock Back pocket knife, and key ring. ***Lifetime Guarantee.***
No. 603LI980 ..... **$17.60**

FM

Use in the Shop or in the Field.

Mini-Flashlight Adapter

Quick. Convenient. Slide the boot over the end of your mini-flashlight and place a precise beam of light where you need it! Will fit most flashlights. ***Lifetime Guarantee.*** **(USA)**
No. 742LI200 AAA/4.5" **$4.75**
No. 742LI001 AA/7" **$5.45**
No. 742LI115 AA/20" **$7.95**

Free Your Hands!

Mini-Flashlight Holder

This versatile Nylon headband wraps securely around your head and safely holds a mini-flashlight. Velcro closure. Color: Black.
Lifetime Guarantee. **(USA)**
No. 742AC050 ..... **$4.65**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

New!

Saberlite® Flashlight

This flashlight offers the brightness and safety needed weather in the workplace or out on the field. The powerful beams, lamp, and reflector assemblies produce white collimated beams, or softwide flood like beams with 400% increased net candlepower. Designed with an unbreakable ABS body with a hi-impact polycarbonate lens. (3) C Batteries required (not included). 12,000 candle power. 7-13/16" OAL. **(USA)**

No. 603PR200 ..... **$23.55**

Stealthlite® Flashlight

The Stealthlite has an unbreakable ABS body with a hi-impact polycarbonate lens. Features a state-of-the-art laser spot Xenon lamp module with an unsurpassed white collimated light beam. **Includes:** one-handed safety switch operation; double shock mounted battery compartment; (4) AA batteries and lanyard. 10,000 candle power. 6-1/2" OAL. **(USA)**

No. 603PR240 ..... **$20.25**

Magnum Plus Flashlight

This flashlight is made of Xenoy® unbreakable chemical resistant resin. Designed with a pre-focused Xenon Laser Spot® beam, rubber lens protector and is water resistant. **Includes:** shirt clip, Xenon Spot® pre-focused lamp module and (2) AA Energizer® alkaline batteries. 8,000 candle power. 6-1/4" OAL. **(USA)**

No. 603PR234..... **$12.45**

Rechargeable StealthLite®

Submersible to 500 feet and corrosion proof, the StealthLite® features the powerful Xenon Laser Spot™ beam produces 15,000 C.P. with 5+ hours burn time. It also features a one-handed, locking on/off switch and a heavy-duty lanyard. Black. Approved: FM, CSA, EX. 6-1/2" OAL ***Lifetime Guarantee.*** **(USA)**

No. 603IN450 ..... **$60.00**

Six Lights In One!

VersaBrite II™

Featuring a 8,000 C.P., Xenon Laser Spot® beam, this hi-performance lamp, with a multi-position head, puts the light where you want it. "O"-Ring sealed, large, multiple-use visor cap/clothing clip, two Nite Vision discs (red/green), and two AA-cell alkaline batteries. Burn Time: 5-6 hours. Black. *Approved: CSA, FM, MSHA, EX.* 4-3/16" OAL. ***Lifetime Guarantee!*** **(USA)**

No. 603IN270 ..... **$12.70**

FLASHLIGHTS DO NOT INCLUDE BATTERIES EXCEPT WHERE NOTED

PolyStinger™

This compact, polymer-body flashlight is the world's most powerful flashlight for its size (up to 15,000 C.P.). **Includes:** Ni-Cd battery pack; one wall mount and one vehicle mount AC & DC recharging stand guaranteed for up to 1,000 recharges, Unbreakable polycarbonate lens, advanced three position switch and includes a spare high performance bulb. UL Approved. Wt.: 9 oz. 7-3/8". **(USA)**

No. 741LI005 ..... **$107.00**

Bright Star Krypton

Heavy-duty. Uses two "D" size batteries. Indestructible Tuflexx® lens. Impact-resistant case. Krypton bulb. Requires 2 "D" Cell batteries – not included.

No. 212MI036 with magnet..... **$7.65**

No. 212MI038 without magnet .. **$5.75**

Bright Star

Indispensable for hazardous areas. Safety-approved flashlight by MSHA. Requires 2 "D" Cell batteries – not included.

No. 212IN010..... **$8.25**

Super Bright Convertible Flashlight/headlight

TopSpot® 2

Unique design allows it to instantly convert from a hand held flashlight to a hands free headlight. Entirely self contained and powered by 4 AA batteries (included). Exclusive fully focusing clear lens that moves from a spot to a wide angle beam with one simple adjustment. High impact construction. Includes long run time back up bulb. **(USA)**

No. 741LI305 ..... **$24.80**

For hands-free work

Flexible Flashlight Holder!

Rap-A-Lite™

Twist it! Turn it! Wrap it! A flexible core gives you hands-free convenience for all your project needs. Direct light where you need it. Use with our 528LI010 1/2" flashlight, the 528LI014 3/4" flashlight, or any similar flashlight. Comes with adapter for 1/2" flashlight.

No. 228IN8710 ..... **$22.80**

Batteries

Universal Ni-Cad Battery Charger

This Universal Ni-Cad Battery Charger slim line design with LED recharges any brand of nickel cadmium batteries. Special circuitry prevents overcharging, re-use batteries up to 1,000 times, charge up to 4 batteries at a time. **Specs**: 120V/60Hz; 8 watts.

No. 858PR767..... **$18.60**

Energizer Industrial Alkaline Batteries

These batteries are designed for your heavy-current or continuous-use applications. **Features:** no mercury added–special disposal is not required; operates in temperatures of -30°C to 55°C.

No. 814CH022 9V	(1-144)	**$1.95** ea.	(145+)	**$1.76** ea.
No. 814CH091 AA, 1.5V	(1-144)	**$.55** ea.	(145+)	**$.50** ea.
No. 814CH092 AAA, 1.5V	(1-48)	**$.65** ea.	(49+)	**$.59** ea.
No. 814CH093 C, 1.5V	(1-48)	**$.95** ea.	(49+)	**$.86** ea.
No. 814CH095 D, 1.5V	(1-144)	**$1.20** ea.	(145+)	**$1.08** ea.
No. 814CH096 AAAA, 1.5V 2/Pk.	(1-12)	**$2.60** ea.	(13-24)	**$2.34** ea
No. 814CH529 Lantern, 6.0V	(1-12)	**$9.60** ea.	(13-24)	**$8.64** ea. (25+) **$8.16** ea

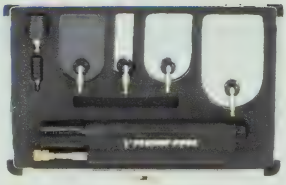
Electronic/Medical Batteries

Energizer L522 lithium battery outlasts alkaline batteries substantially in pulse oximeters and infusion pumps. The L522 has a capacity of 1200 milliampere-hours; requires no "air up" time and contains no mercury, cadmium, or lead; operates in temperature extremes of -40°C to 60°C.

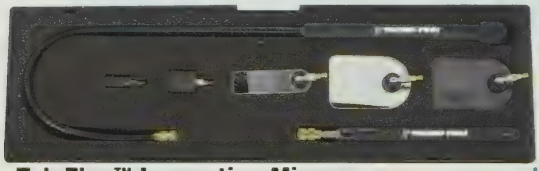
No. 814CH522 9V **$6.40**/Pk

No. 814CH912 AA, 1.5V **$5.55** 2/Pk

Teluminator™ Inspection and Pick-Up Tool Kit - 7 pc



The Teluminator™ Inspection and Pick-Up Tool is 7 tools in 1. Designed with a high intensity focusing halogen inspection light encased in a durable housing, with a stainless steel telescopic shaft with brass quick-change coupler that telescopes from 7" to 32". **Includes:** (1) High intensity focusing halogen light; (3) shatter-resistant acrylic inspection mirror; (2) powerful neodymium magnets with black steel Energy Ring™ (large magnet picks up 14 lbs., small magnet picks up 3 lbs.); (1) shatter-resistant acrylic inspection magnifier; (2) AA Batteries; Case. (Canada)
No. 224PR202 ..... $59.75



TeleFlex™ Inspection Mirror and Magnetic Kit - 7 pc

New!

This 7-piece tool kit is 10 tools in 1. **Includes:** replaceable, shatter-resistant acrylic inspection mirrors (4), two inspection magnifiers, and four magnetic pick-up tools. It features a telescoping stainless steel shaft with a brass quick-change coupler, and a dual-purpose flexline shaft with brass quick-change coupler. Telescopes from 7" to 32". The power head reduces side pull by 99.9% increasing magnetic strength by 100%. Has a pick-up capacity of 14 lbs with the large magnet and 3 lbs with the small magnet. Complete with non-slip custom PVC grip, 23" flexline, 34" telescopic. (Canada)
No. 224PR800 ..... $55.95

FlexMag™ Magnetic Pick-Up Tool

New!

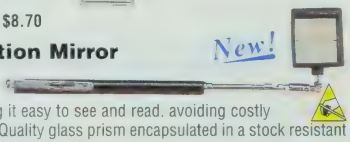
Dual purpose flex shaft magnetic pick-up tool works two ways:
Permanent bend or "snake" position. Swivels 180° and rotates 360°. Has a lift capacity of 14 lbs. 23" OAL.
No. 224PR001 ..... $15.15

Telescoping Lexan Inspection Mirror

This mirror facilitates inspection of inaccessible workplaces and machines. Telescoping arms and vinyl cushion grip handles.11-1/2" OAL.
No. 400IN570 ..... $8.70

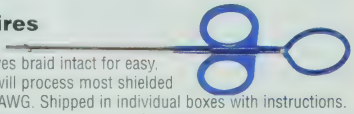
Rite-Site Inspection Mirror

New!



The Rite-Site Inspection Mirror presents you with a non-inverting image, making it easy to see and read, avoiding costly mistakes. **Features**: Optical-Quality glass prism encapsulated in a stock resistant plastic housing; convenient pocket clip; metal chrome-plated telescoping arm (extends to 16"). ESD safe handle and head - 10^8-$10^{11}\Omega$/sq. (China)
No. 683PR123 ..... $12.00

Lead Extractor For Shielded Wires

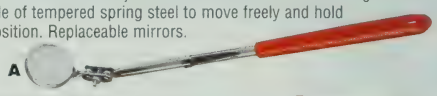


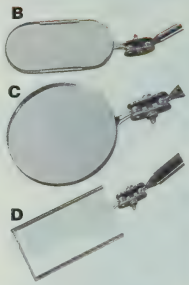
Eliminates broken shield strands. Color-coded. Leaves braid intact for easy, neat soldering. Five sizes will process most shielded wires from 30 AWG to 14 AWG. Shipped in individual boxes with instructions.

No. 764PR018	up to .045" Black	$19.25
No. 764PR020	up to .060" White	$19.25
No. 764PR022	up to .080" Green	$19.25
No. 764PR014	up to .100" Blue	$19.25
No. 764PR016	up to .130" Yellow	$19.25

Ball Joint Mirrors

All-angle ball joint mirrors with stainless steel mirror backs. Visual inspection of hidden areas. Double ball joint links swivel mirrors for viewing to 360°. Made of tempered spring steel to move freely and hold desired position. Replaceable mirrors.





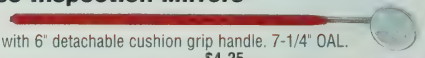
A. Circular Pocket Mirror
7/8" diameter. 7-1/2" OAL.
No. 810IN012 ..... $4.10

B. Oval Pocket Mirror
1" x 2" diameter. 8-1/2" OAL.
No. 810IN018 ..... $4.70

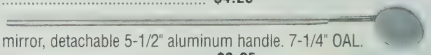
C. Circular Telescopic Mirror
2-1/4" dia. 10" OAL extends to 14".
No. 810IN024 ..... $6.75

D. Rectangular Telescopic Mirror
2-1/8" x 3-1/2" . 11-1/4" OAL extends to 15-1/4".
No. 810SC024 ..... $6.75

All-Purpose Inspection Mirrors



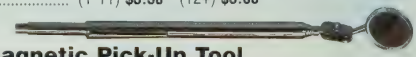
Handy 1" mirror with 6" detachable cushion grip handle. 7-1/4" OAL.
No. 758IN016 ..... $4.25



Chrome-plated mirror, detachable 5-1/2" aluminum handle. 7-1/4" OAL.
No. 758IN040 ..... $3.95

Fiberglass Mirror

Completely insulated with a strong handle. 1" diameter (Front Surface) mirror creates no shadow. Molded into FRP handle. No metallic contact. Use on live circuits for safety. **Color:** Blue.
No. 712IN028 ..... (1-11) **$3.50** (12+) **$3.00**



Mirror & Magnetic Pick-Up Tool

Mirror diameter 7/8". Extends out over 19-1/2" yet closes down to 5-5/8" pocket size.
No. 810IN062 ..... $7.20

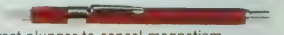
Telescopic Mirrors & Pick-Up Tools

All-Angle Ball Joint 7/8" diameter. Extends to 18", closes to 4-1/2".
No. 810IN013 ..... $5.65

Magimmicks Magnetic Pocket Pick-Up Tool

Extends to a full 19-1/2", closes down to 4-1/2" pocket size.
No. 810PR032.... $6.00

Retractable Magnet

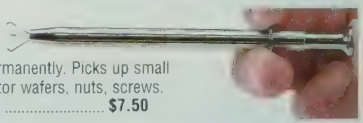


Depress plunger to magnetize tip. Retract plunger to cancel magnetism.
No. 390PR016 ..... $6.90

Magnetic Pick-Up Tool & Magnifier Kit

Your kit includes a stainless steel telescoping magnet that extends from 7" to 32.5" and has a 180° swivel. It's pick-up capacity is: 5 lbs. Also included is the replaceable, shatter-resistant magnifier which extends from 7" to 23.5", a 180° swivel . Both have a non-slip PVC grip. (Canada)
No. 224IN400 ..... $32.00

Parts Holder



Three wire fingers automatically withdraw into handle & maintains set permanently. Picks up small parts such as semiconductor wafers, nuts, screws.
No. 890TW010 4-1/2" OAL $7.50

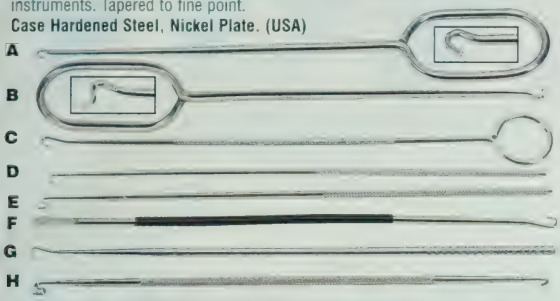
Mechanical Pick-up

Retrieve small items from hard-to-reach places with a 23-1/2" (60 cm) reach. **(USA)**
No. 400PR396 ..... $7.50

TECHNI-TOOL Spring Hooks

There is a spring hook for your application in this new range from Techni-Tool. A whole new range of spring hooks has been developed over a period of time, designed specifically to tackle the variety of spring sizes found in present day office equipment. They are useful in a wide variety of mechanical and electro-mechanical functions. For inserting, removing and adjusting fine springs in hard-to-reach areas. For precision work in production and maintenance of fine instruments. Tapered to fine point.

Case Hardened Steel, Nickel Plate. (USA)



Spring hook: pull, 6" OAL.
A. No. 479PR120 ..... **$3.40**
Spring hook: push/pull, 6" OAL
B. No. 479PR125 ..... **$3.40**
Heavy Spring Tool - pull. Stainless Steel. 9-1/2" OAL. **(USA)**
C. No. 580PR855 ..... **$4.40**
Light Spring Tool - pull. Steel, Nickel Plated. 7" OAL. **(USA)**
D. No. 580PR853 ..... **$3.95**
Light Spring Tool - push. Steel, Nickel Plated. 7" OAL. **(USA)**
E. No. 580PR854 ..... **$3.95**
Hook, spring; pull and lifter, 8" OAL.
F. No. 202SP026 ..... **$2.55**
General purpose puller, 7-1/4" OAL.
G. No. 202SP028 ..... **$2.75**
Spring Hook - Double ended, nickel finish, 7" OAL.
H. No. 202SP024 ..... **$3.25**

Spring Hook Set - 8 pc

Consists of a handle with five different adapters and two extensions, all made of stainless steel. Adapters are 4-1/2" long, the handle is 4-1/2" long. The two extensions, each 4" long, allow a maximum tool length of 16-1/2" when combined with handle and spring hook. The extensions have an inner and outer thread to connect individually with the handle or spring hook. **(USA)**

No. 202SP032 ..... **$13.95**

Captive Spring Hook

The strong stainless spring hook can grab and capture small wires and parts and hold them so they cannot slip away and drop into chassis, etc. The spring hook is hooded, and the hook exposed by depressing the plunger hook retracts automatically.

No. 758TW552 (USA) 6" OAL..... **$14.00**
No. 479PR145 Imported, 6-5/8" OAL **$6.10**

Utility Packing Hook with Magnetic Pick-Up in handle for removing springs, wadding, washers, "O" rings, and prying stuck gaskets loose. 7" OAL.

No. 810PR016 ..... **$3.80**

Wire Director

Special Stainless steel Director with no-nick notch to guide the finest wire. Great for placing wires in "tight" places. 6-1/4" OAL

No. 712PR042 ..... **$17.85**

Micro Probe Tip with Sharp Chisel End

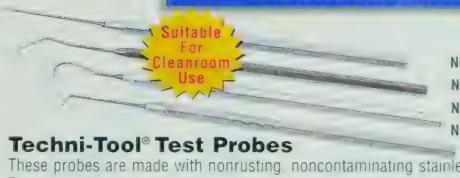
Excellent for touch-up work! 5-1/4" OAL

No. 202SP022 ..... **$4.25**

Automatic Circuit Trace Cutter

Fast and safe means of cutting individual conductor traces on printed boards. Hardened chisel point provides accurate cuts even on high density circuitry. Precise impact control.

No. 400SA790 ..... **$20.25**
No. 400SA791 Replacement Point **$4.30**



No. 202SP010
No. 202SP012
No. 202SP018
No. 202SP034

Techni-Tool® Test Probes

These probes are made with nonrusting, noncontaminating stainless steel tips They're scalpel-sharp for fine probing and have spring wire tips that are tempered for flexibility. Useful for cold solder probing, hand inspection, micro positioning, lead adjusting.

No. 202SP010; No. 202SP012; No. 202SP018; No. 202SP034;
(1-11) **$3.00** (12-143) **$2.75** (144+) **$2.50 each:**

No. 202SP040 4 pc Probe Set **$11.95**

Machinists' Scribers

Three interchangeable points: one short straight, one short bent, and one long bent point. One short and one long point. 12"OAL

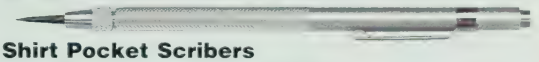
No. 400PR090 ..... **$3.70**

One straight and one bent point. Hardened points.

No. 400PR144 8" OAL **$2.95**

Threaded straight pt./90°. Bent pt. 8-1/2" OAL

No. 580PR514 ..... **$3.65**



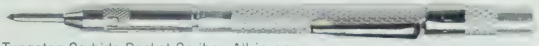
Shirt Pocket Scribers

Scriber point held or stored in chuck-type nose; strong spring pocket clip. Magnet mounted at clip end. 5-1/2"OAL

No. 580PR026 Steel Tip w/Magnet **$6.25**

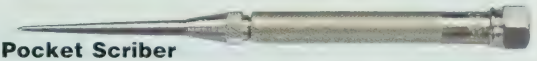
Carbide-tipped, reversible pocket scriber with chuck-type nose and strong pocket clip. Magnet mount on clip end. 5-1/2"OAL.

No. 580PR028 Carbide Tip w/Magnet **$6.75**



Tungsten Carbide Pocket Scriber. All-in-one "Push-Click" safety cover. Magnetic pick-up. 5-3/8"OAL

No. 810PR018 ..... **$6.75**



Pocket Scriber

Replaceable steel tip, pocket scriber with chuck-type nose. 6" OAL.

No. 580PR024 Steel Tip **$3.90**

Retractable Scribe

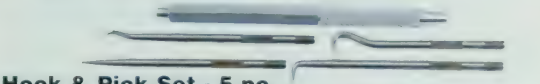
Retractable scribe feature minimizes danger while carrying.

No. 390PR022 Diamond Tip Engraver **$13.00**
No. 390PR012 Tip Only (Carbide) **$3.45**
No. 390PR014 Tip Only (Diamond)..... **$6.80**

Needle-Point Scriber

Replaceable point is held rigid in friction grip
Four extra needle points under hexagon cap. 5"OAL

No. 400PR166 ..... **$3.50**



Hook & Pick Set - 5 pc

For separating wires, removing small fuses and "O"-rings, and retrieving washers & loose parts too small to pick up with your fingers. Hex-shaped aluminun handle with powerful magnet on end. Handy screw-in hooks, picks, points & scribe. High carbon polished steel needle. All in compact zip-lock vinyl pouch

No. 810PR004 ..... **$7.25**

Hammers

Vaughan Electrician's Straight-Claw Hammer
Designed specifically for use in electrical work. Correctly balanced. Extra-long neck, straight claw and narrow striking face make it ideal for reaching into outlet boxes and other confined areas. Polished, drop-forged, tempered steel head. Shock absorbent fiberglass handle for strength. Comfortable, perforated neoprene grip bonded to handle. Head weight: 18 oz. 14" OAL. **(USA)**
A. No. 490SA020 ..... **$25.30**

Plumb® Fiberglass Unbreakable Hammer
High-luster, full-polished finish on head, pole and striking face. Octagon-shaped neck and bell. Factory balanced. Sturdy unbreakable fiberglass handle with back cushion grip and Permabond® handle attachment. 20 oz. 13-1/2" OAL. **(USA)**
B. No. 732SA052 ..... **$28.90**

Vaughan Ball Pein Hammer Fiberglass Handle
Drop-forged, carbon steel head. Face, sides and pein are polished. Hammer head is epoxy bonded to the fiberglass handle. Wt: 8 oz. *Meets Fed. Spec. GGG-H-86c.* 11" OAL. **(USA)**
C. No. 729SA022 ..... **$18.45**

Techni-Tool Ball Pein Hammer - Hickory Handle
Black ground head. Polished peins. Select quality hickory handle. Strong Permabond® handle to head attachment. **(USA)**
D. No. 834SA016 2 oz., 9-1/2" OAL **$11.85**
No. 272SA494 4 oz., 10-1/2" OAL..... **$16.50**
No. 272SA496 8 oz., 11-1/4" OAL..... **$15.50**

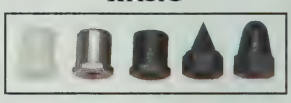
Ball Pein Hammer - Fiberglass Handle
No. 175SA504 4 oz., 10" OAL **$14.50**

Strike Pro™ Dead Blow Hammer
Hammer is non-marring; "shot-loaded" and has a fiberglass handle and propylene outer jacket, delivering 40% more strike force than conventional hammers. Meets all Fed. Specs. 1-3/8" face diameter, 16 oz. Color: Orange. 12" OAL. **(USA)**
E. No. 602SA235 ..... **$20.35**

The Power Drive® Dead Blow Hammer
Shot loaded for no-bounce effect, fiberglass handle, and ergonomic grip. Non-marring. **(USA)**
F. No. 602SA009 8 oz. (steel face) **$30.70**
No. 602SA010 16 oz. **$35.00**

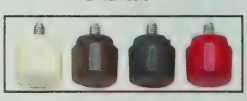
Xacto Hammer Set
All-metal handle with six different interchangeable tips: two round steel, one flat steel, one flat brass, one flat plastic and one tinner's steel. 7" OAL
G. No. 890SA010..... **$13.95**

X-ACTO



Plumb 6-in-1 Soft Face Hammer
This soft face hammer set allows you to replace the tips rather than the entire hammer. The comfort grip design reduces fatigue, while the solid fiberglass handle was designed for a long service life.
Includes: Six Tips (1 each): Hard Black, Extra Hard Yellow, Tough Green, Medium Red, Med. Hard Cream and Soft Brown. **Specs:** Tip Size: 1"; Head wt: 6oz; 11" OAL. **(USA)**
H. No. 758TT100 ..... **$43.18**

Plumb



Dead Blow Hammer *New!*
The Dead Blow Hammer is designed with an impact absorbing steel shot filled head. The press fit replaceable faces won't loosen during use, and constructed with a replaceable hickory handle with cushioned grips for maximum comfort. 11.3" OAL. (Germany)
J. No. 881PR225 ..... **$34.00**

Chisels, Punches, and Assorted Hand Tools

Drive Pin Punch Set - 8 pc
4" long steel tools–heat treated, ground and polished.
Includes: 1/16", 3/32".1/8", 5/32", 3/16", 7/32", 1/4", 5/16", and wood case.
No. 400SA080 ..... **$32.00**

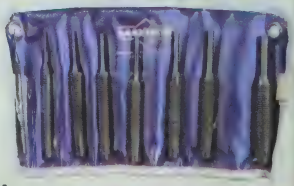
Automatic Punch
Adjustable for heavy or light impressions. It is also perfect for spotting metals, or plastics. 5" OAL.
No. 400PR138 ..... **$18.10**
No. 400PR142 Replacement Point..... **$2.40**

Pocket Automatic Center Punch
Lightweight aluminum body with replaceable alloy steel point used for long wear is perfect for punching, marking, scribing, and starting nail or screw holes. Adjusts for light or heavy markings. Pencil slim design with pocket clip.
No. 400PR087 ..... **$11.35**

Automatic Center Punch
This punch is pen size and still has the same impact force as other conventional, automatic center punches. It has an adjustable pressure cap with a replaceable tip.
No. 390PR010 ..... **$11.30**
No. 390PR018 Replacement Tip **$3.50**

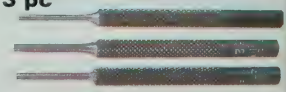
Punch & Chisel Kit - 6 pc
Includes: Cold Chisels, 1/2" & 5/8"; Punches,3/8" Center, 1/8" & 3/16" Pin; 3/16" Drift. **(USA)**
No. 544PR751..... **$32.00**

Punch Kit
Contains: Eight No. 475 pin punches: One each of 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16". Comes in a plastic pouch. **(USA)**
No. 544PR480 ..... **$33.25**



Mini Center Punch Kit
Three miniature center punches (knurled) 1/4", 3/16", 5/16" in a pouch. **(USA)**
No. 544PR022 ..... **$9.95**

Miniature Punch Kit - 3 pc
Three miniature Pin Punches (knurled)1/16", 5/64", 3/32" in a plastic pouch. **(USA)**
No. 544PR021 ..... **$9.95**



TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

File Sets

Field Service File Set
A set of 12 tiny needle files for fine work. Perfect for use in your tool kit. Special low price. Imported. 4" OAL.
No. 784FI014 ..... **$22.00**

Needle File Set - 7 pc
A full assortment of six styles plus a universal handle.
7 pc set
No. 890FI030 ..... **$16.95**
4 pc set *(Not Shown)*
No. 890FI026 ..... **$9.50**

File Handle For Needle Files
The tool handle with spring clamp and turning knob clamp. Secure fastening of the tools just by turning knob clamp. Ergonomic handle. Clamping range 3-4 mm.
No. 464FI045 ..... **$14.60**

For Tool & Die Makers
Swiss Pattern Needle File Set - 4 pc
GENERAL
For tool and die makers. Includes three 5.5" long file shapes: flat, round, triangular; and a 5.5" long knurled aluminum handle for control and comfort. 8.5" OAL.
No. 400FI477 ..... **$6.40**

Diamond Needle File Set - 6 pc
Your six-piece set has one each of equalling, barrette, half round, three square, round and square. 5-1/2" OAL. **(USA)**
No. 734FI100 ..... **$64.95**

Wooded Handle File Set - 6 pc
High-quality, file assortment. With comfortable wooden handles for good grip: 4-1/8" blades for practical use. Set consists of flat, round, 1/2 round, square, 3-square, & hand file shapes. (Germany)
C.K
No. 217FI120 6-3/4" OAL **$22.00**

Needle File Set - 6 pc
Set of 6 files. Containing one file each of: hand, flat, half round, round, three square and square, and handle. 5-1/2" OAL.
No. 844PR142 ..... **$40.65**

Needle File Set - 12 pc
Set of 12 files. Containing: one file each of: hand, flat, three square, square, half round, crossing, round, knife, barrette, slitting, round-edge joint and marking, plug handle. Teeth per inch: 86; type of cut: smooth. 6-1/4" OAL.
No. 844PR162 ..... **$89.00**

Needle File Handle
Adjustable plastic file handle for consistent grip on Bahco needle files.
No. 844PR011 ..... **$23.65**

Engineering Files
For filing flat surfaces, sharp corners and shoulders as well as for deburring. A double cut file should be used for work in high-alloy tool steels. Edges and surfaces parallel; Surfaces double cut, one edge uncut, one edge single cut.

TT Number	Overall Length	Section per inch	Teeth per inch	Type of Cut	PRICE Each
844PR062	6"	5/8 x 5/32	33	Bastard	$6.00
844PR063	6"	5/8 x 7/64	48	Bastard	$3.65
844PR064	6"	15/64	33	Bastard	$6.15
844PR065	6"	27/64	33	Bastard	$6.75
844PR066	6"	5/8 x 3/16	33	Bastard	$7.75
844PR067	6"	15/64	33	Bastard	$5.60
844PR068	8"	25/32 x 3/16	25	Bastard	$10.50

Engineering File Sets
Set of three files with handle. Supplied in a plastic roll-up wallet with tie. Contains one each of: hand, half round and round engineering files. Type of cut: 2 = Second; files per set: 3. 6" OAL.
No. 844PR622 *(Not Shown)* **$15.90**

Set of five 8" engineers' files with handle. Supplied in a plastic roll-up wallet with tie. **Contains:** one file each of: hand bastard, hand second, square bastard, half round bastard, round bastard. Type of cut: 2 = Second; files per set: 5. 8" OAL.
No. 844PR812 ..... **$27.70**

Nicholson® Files

Swiss Pattern Needle Files
Made in twelve different shapes, these files have knurled handles, and when purchased in assorted sets, are supplied in a soft plastic snap pouch. 5-1/2" OAL. *Listed are the most popular styles.*

TT No.	File Shape	Cut No.	PRICE
272FI264	Set of 12 Different Shapes	2	$140.85
272FI286	Flat	0	$11.80
272FI288	Flat	2	$11.80
272FI304	Knife	2	$11.80
272FI272	Round	2	$11.80
272FI320	3 Square	2	$11.80

Adjustable File & Tool Handle
Holds files, tang-handled tools, hack saw blades, reamers, etc. Exclusive, self-equalizing, hardened steel jaws grip the entire length of inserted tang, providing a firm grip. Large, quick-adjusting, knurled knob assures easy, positive locking
No. 400FI014 ..... **$5.40**

Mill Files
Tapered slightly in width. Square edges.
No. 272FI108 Smooth, 8" OAL .. **$7.45** **No. 272FI100** 2nd Cut, 6" OAL .. **$6.00**

4-In-Hand
Four files in one– a file and a rasp on the flat side; a file and a rasp on the half-round side. Width 7/8" x 9/32". **No. 272FI216** 8" OAL **$9.40**

Half Round Files
Backs of all Half-Round Bastard Files are double cut

Length	Bastard		2nd Cut		Smooth	
8"	272FI040	$11.20	272FI042	$12.45	272FI044	$13.35

Round Files

Length	Bastard		2nd Cut		Smooth	
8"	272FI136	$5.85	272FI138	$6.80	272FI140	$7.55

A. "Dual-Purpose" Die-Cast Aluminum Saw

Pivot-lock tensions all blades easily and correctly. Blade length 12". Supplied with bi-metal blade. 16" OAL.
No. 148SA014 ..... **$31.25**

B. Nicholson® Hand Blades

This shatterproof, high-speed steel blade is specified by safety departments.
10"L x 1/2"W x .025" thick, 24 teeth. - 2/Pk.
No. 148FI012 ..... **$17.50**
12"L x 1/2"W x .025" thick, 24 teeth. - 5/Pk.
No. 148FI020 ..... **$19.00**
12"L x 1/2"W x .025" thick, 18 teeth. - 10/Pk.
No. 148FI018 ..... **$19.00**

C. Nicholson® Professional Rigid Steel Frame

Rugged, nickel-plated frame of heavy gauge steel adj. for 8", 10" or 12" blade lengths. Blade rotates to four cutting positions. Comfortable pistol-grip handle. Throat depth: 3-9/16". 17-1/4" OAL. **(USA)**
No. 732PL170 ..... **$16.35**

D. Diamond Wire Saw

45 micron, diamond impregnated wire is .008" in diameter. It cuts with equal ease on all sides and in all directions. It will cut glass, quartz, rock, stone and metals. **Specifications: Frame:** Stainless steel 10-1/2"L x 3/16"W. **Handle:** Plastic 3-1/8" long 3/4" dia. 14" Wire length needed. **Cutting stroke:** 9". **Wt:** 4 oz.
No. 504SA010 ..... **$37.50**
Refill Wires - 5/Pk.
No. 504SA018..... (1-5) $10.00 (6+) $13.50

Saws and Blades

E. Deluxe Hacksaw Frame

This deluxe hacksaw frame has a spring for easier blade change and adjustment up to 45°. Cast aluminum front section features jab saw and blade storage. Blade length: 10" OAL.
No. 272PR953 ..... **$12.90**

F. Nicholson® Hack Saw

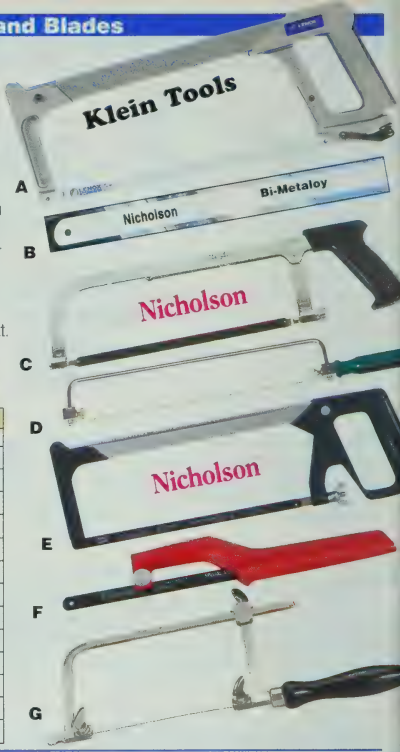
Uses any regular hack saw blades or even broken pieces from 3-1/2" length. For light-duty use only. Durable molded frame offers maximum hand comfort. 10" OAL.
No. 732SA024 ..... **$8.40**

G. Jewelers' Saw Frame

Saw frame is constructed of polished steel. 4" throat.
No. 846SA010..... **$11.15**

Blades- Uniform teeth, curved backs. Precision made. Supplied in one dozen per package.

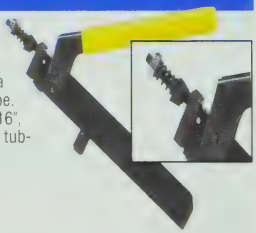
TT No.	Size	Thickness	Teeth per in.	PRICE
846SA026	8/0	.0063"	84	$3.45
846SA024	7/0	.0067"	84	$3.20
846SA018	5/0	.008	76	$2.55
846SA016	4/0	.0086"	68	$2.40
846SA014	3/0	.0095"	64	$2.15
846SA020	2/0	.0103"	53	$2.15
846SA028	0	.0110"	56	$3.00
846SA030	1	.012"	47	$2.15
846SA038	2	.0134	44	$2.15
846SA040	3	.014"	40	$2.15
846SA042	4	.0150"	37	$2.15
846SA044	5	.0158"	35	$2.40
846SA046	6	.0173"	33	$2.55
846SA048	7	.0189"	30	$2.95



Nibblers and Snips

Nibbler Cutting Tool

Cuts sheet metal, plastic, & tubing with a squeeze. Cut a hole, notch, edge, or trim a piece of material down to any size or shape. Cuts steel up to 18 AWG, copper up to 1/16", aluminum up to 1/16", plastic up to 1/16", tubing from a 1" I.D.
No. 828PR376 ..... **$20.45**
Replacement Blades
No. 490PR012 ..... **$9.85**

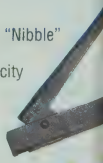


Lindstrom Metal Nibbler

Strong handles with sleeves for comfortable grip. Simple operational safety lever. Small distance between handles allows for easy cutting. For cutting flat sheet, square or cylindrical tubing. Snips off the waste curl when closing the handles and leave a clean, square cut. Cutting Capacity: Stainless 0.0315"/21 ga.; Cold rolled 0.047"/18 ga., 10 OAL.
No. 844PR926 ..... **$38.50**

Adel Nibbling Tool

Cuts sheet metal like a punch and die. Start with a 7/16" hole, then "Nibble" to the size required. It cuts clean like a punch and die. Cuts round, square, or irregular holes to any SHAPE and SIZE over 7/16". Capacity Steel 18 AWG. (.046) max. Aluminum, copper, plastic 1/16".
No.114MI010..... (1-11) **$19.15** (12-24) **$18.25** (25+) **$17.35**
Replacement Blades
No. 114MI012 .. (1-11) **$12.75** (12-24) **$12.10** (25+) **$11.45**



Tinners' Snips Compound Action

Hot-drop-forged, molybdenum steel jaws. Handles hot pressed frommolybdenum steel. Bolts & nuts are made of nickel steel. Fine serration on jaws. Capacity 18 AWG. (max). 9-3/4" OAL.
Red grips: Left Cut
No. 272SC536 Cut lgth 1-3/8". **$16.95**
Green grips: Right Cut
No. 272SC538 Cut lgth 1-3/8". **$16.95**
Yellow grips: Straight Cut
No. 272SC540 Cut lgth 1-1/2". **$16.95**

Wiss® Multi-Master™

Make long, fast cuts in material including: plastic, sheet metal, aluminum, vinyl, stainless steel, kevlar, fiberglass and many more. The non-slip, serrated jaws and non-slip textured grips create a compound action cutter which multiplies the force of the hand by five times. Cuts up to 20-gauge steel. **(USA)**
No. 272PL300 (M-300) **$19.20**

Tube Cutters and Benders

Mini Tube Cutters

Cut copper, aluminum, brass and thin wall tubing in tight or hard to reach places. Features larger knob for greater torque; hardened flare grooved rollers: Cap. 1/8" - 7/8". **(USA)**
No. 400PR129 ..... **$7.00**
1-1/4" clearance. Has Nichrom capacity of 1/8" to 5/8" O.D. tubing.
No. 400SA020 ..... **$7.90**

4-Size Compound Tube Bender

Made of durable die-cast alloy, this handy laboratory/medical tube bender handles 1/8", 1/4", 5/16" or 3/8" copper, brass, thin wall and other soft metal tubing.
Features: Calibrated angle markings from 10° to 180° for left, right or offset bends.
(USA)
No. 400PR153 ..... **$22.45**

Improve Your Soldering Performance In All Applications!

Microtouch Plus™

The *Microtouch Plus™ MT1500* provides you with immediate, accurate tip temperature for faster soldering... tip heats up in as little as two seconds. The rapid recovery maintains constant soldering temperature. The *MT1500* features a "No Tools Required," quick-change system with 50 different tip sizes available. The station has three modes of operation for increased tip life.

Touch Mode: Solder very small components with Microtips. Tip immediately heats from ambient to set temperature at the touch of your finger.

Idle Mode: Similar to touch mode, but temperature is automatically set back to approx. 400°F after one minute of inactivity.

Continuous Mode: Tip remains heated to the set temp. Variable temperature reduces number of tips needed. Tip temperature range is 400°F (204°C) to 850°F (427°C) with stability of ±10°F (±6°C). Pull to set, push to read. Temperature adjustment knob with digital readout. Temperature Calibration access port. ESD safe. Mil spec compliant. Station operates on 110VAC or converts to 240VAC, 50/60Hz. *(Unit does not include tips.)* **(USA) No. 272SO500 ..... $625.00**

MT1500L ThermoLock MicroTouch

The MT1500L uses a thermolock key to control the operating temperature and prevent unauthorized changes by the user. When the key is removed, the temperature automatically lowers to 400°, eliminating the risk of damage to the work or the tool. Three keys are included with each station: 600°, 700° and 800°. Perfect for ISO9000 applications. **No. 272SO501 ..... $619.00**

MicroTouch Plus™ Tips

	TT No.	Tip No.	Description	Size (inches)	PRICE
A	272TI0202	MT202	Conical	.030D x 1.0L	$36.10
B	272TI213	MT203	Conical	.030D x 1.0L Mil-Spec	$56.90
C	272TI207	MT204	Conical*	.030D x 1.0L	$34.80
D	272TI422	MT220	Calibration Conical	.030D	$77.90
E	272TI320	MT302	Conical	.015D x .200L	$45.00
E	272TI606	MT606	Conical	.016D x .530L	$45.00
E	272TI609	MT609	Conical	.023D x .600L	$45.00
E	272TI613	MT613	Conical	.020D x .530L	$45.00
E	272TI915	MT615	Conical	.030D x .390L	$45.00
F	272TI303	MT303	Conical, Bent 30°	.015D x .320L	$45.00
F	272TI603	MT603	Conical, Bent 30°	.020D x .600L	$45.00
F	272TI605	MT605	Conical, Bent 30°	.016D x .560L	$45.00
F	272TI612	MT612	Conical, Bent 30°	.050D x .880L	$45.00
	272TI611	MT611	Chisel	.060W x .610L	$45.00
	272TI614	MT614	Chisel	.100W x .190L	$45.00
G	272TI607	MT607	Bevel 30°	.020D x .530L	$45.00
G	272TI608	MT608	Bevel 30°	.040D x .560L	$45.00
G	272TI616	MT616	Bevel 30°	.032D x .560L	$45.00
H	272TI211	MT211	Screwdriver	.045W x 1.0L x .015T	$48.95
I	272TI412	MT212	Screwdriver*	.045W x 1.0L x .005T	$49.90
	272TI221	MT221	Screwdriver	.038W x 1.0L x .010T	$46.70
J	272TI311	MT301	Screwdriver	.047W x .200L	$50.60
K	272TI322	MT320	Calibration Tip	.047W x .200L	$68.40
L	272TI601	MT601	Screwdriver	.070W x .385L	$45.00
	272TI602	MT602	Screwdriver	.100W x .390L	$45.00
	272TI604	MT604	Screwdriver	.060 x .390L	$45.00

	TT No.	Tip No.	Description	Size (inches)	PRICE
	272TI610	MT610	Screwdriver	.200W x .350L	$45.00
M	272TI620	MT620	Calibration Tip		$49.90
N	272TI203	MT1203F	Quad PLCC-44	.700 Sq Flexible	$171.00
	272TI215	MT1214F	Quad (not shown)	1.165 Sq	$188.10
O	272TI208	MT1208F	Quad PLCC-68	1.000 Sq Flexible	$171.00
P	272TI730	MT1212	Quad PLCC-18	.335 x .535	$75.95
Q	272TI732	MT1202	Quad PLCC-20	.410 Sq	$75.95
R	272TI734	MT1201	Quad PLCC-28	.500 Sq	$75.95
S	272TI736	MT1204	Quad PLCC-32	.500 x .600	$75.95
T	272TI738	MT619	SOIC 14/16	.200W x .410L	$64.95
T	272TI740	MT621	SOIC 8	.200W x .180L	$64.95
T	272TI762	MT1207	SOIC 20	.375W x .520L	$64.95
T	272TI744	MT1210	SOIC 28	.375W x .720L	$64.95
T	272TI746	MT1211	SOIC 24	.375W x .620L	$64.95
	272TI748	MT1209	SOJ-28 (not shown)	.340W x .740L	$64.95
U	272TI617	MT617	SIP (Blade)	.410L	$96.90
	272TI026	MT1206	SIP	.620L	$76.20
V	272TI205	MT1205	SIP (Blade)	.820L	$107.00
W	272TI618	MT618	CHIP 1206/1210	.125W x .070L	$59.90
W	272TI922	MT622	CHIP 0805	.090W x .060L	$59.50
W	272TI624	MT624	CHIP SOT 23	.068W x .100L	$59.90
W	272TI625	MT625	CHIP 1808/1812	.190W x .090L	$59.90
W	272TI626	MT626	CHIP CAP D	.303W x .185L	$59.90
	272TI627	MT627	Ext. Lgth. Screwdriver (not shown)	.070W x .385L	$49.90
	272TI623	MT623	SOMC-16	.270W x .450L	$59.90
	272TI216	MT1213	QFP 64-80	.580W x .915L	$127.80

*Non Wetting

Weller

WTCPT

"Magnastat" control system. Interchangeable tips for 600, 700 and 800°F. Soldering stand maybe fastened to left or right, or positioned remotely 220V available. **Specifications:** ***Soldering tool:*** *42W;* ***Output:*** *24V.* Tip included. **(USA)**

Soldering Station Plus Stand
No. 272IR365..... **$119.90**
Soldering Pencil – only
No. 272IR290..... **$76.00**
Soldering Iron Stand – only
No. 272SO1201..... **$20.90**

WTCPT And WTCPTD Replacement Parts List

No. 272IR290	Soldering Pencil w/PTA7 tip	$76.00
No. 272IR235	Heater assy (24V) Plug in type	$15.90
No. 272IR288	Switch assy for soldering pencil	$28.10
No. 272SO217	Cord set w/plug	$20.60
No. 272IR064	Barrel nut assembly	$5.95
No. 272SO1201	Iron stand	$20.90
No. 272IR300	Iron holder w/funnel	$6.95
No. 272SO058	Sponge (Each)	$1.70
No. 272IR232	Handle assembly for TC201P	$6.10

PT Series Tips-WTCPT and WTCPS Stations

Tip	TT No.	Temp.	Tip Size Inch (mm)	PRICE 1-11	12-47	48-99
PTA Screwdriver Tip	272TI1024	600°F	1/16" (1.6)	$4.75	$4.22	$3.98
	272TI1026	700°F	1/16" (1.6)	$4.75	$4.22	$3.98
	272TI1028	800°F	1/16" (1.6)	$4.75	$4.22	$3.98
PTAA Single Flat	272TI1032	700°F	1/16" (1.6)	$4.75	$4.22	$3.98
	272TI1034	800°F	1/16" (1.6)	$4.75	$4.22	$3.98
PTB Screwdriver Tip	272TI1036	600°F	3/32" (2.4)	$4.75	$4.22	$3.98
	272TI1038	700°F	3/32" (2.4)	$4.75	$4.22	$3.98
	272TI1040	800°F	3/32" (2.4)	$4.75	$4.22	$3.98
PTBB Single Flat	272TI1044	700°F	3/32" (2.4)	$4.75	$4.22	$3.98
	272TI1046	800°F	3/32" (2.4)	$4.75	$4.22	$3.98
PTC Screwdriver Tip	272TI1048	600°F	1/8" (3.2)	$4.75	$4.22	$3.98
	272TI1050	700°F	1/8" (3.2)	$4.75	$4.22	$3.98
	272TI1052	800°F	1/8" (3.2)	$4.75	$4.22	$3.98
PTCC Single Flat	272TI1056	700°F	1/8" (3.2)	$4.75	$4.22	$3.98
	272TI1058	800°F	1/8" (3.2)	$4.75	$4.22	$3.98
PTD Screwdriver Tip	272TI1060	600°F	3/16" (4.7)	$4.75	$4.22	$3.98
	272TI1062	700°F	3/16" (4.7)	$4.75	$4.22	$3.98
	272TI1064	800°F	3/16" (4.7)	$4.75	$4.22	$3.98
PTDD Single Flat	272TI1068	700°F	3/16" (4.7)	$4.75	$4.22	$3.98
	272TI1070	800°F	3/16" (4.7)	$4.75	$4.22	$3.98
PTE Screwdriver Tip	272TI1074	700°F	15/64" (6)	$4.75	$4.22	$3.98
	272TI1076	800°F	15/64" (6)	$4.75	$4.22	$3.98
PTF Conical Flat	272TI1080	700°F	1/32" (0.8)	$4.75	$4.22	$3.98
	272TI1082	800°F	1/32" (0.8)	$4.75	$4.22	$3.98
PTH Screwdriver Tip	272TI1084	600°F	1/32" (0.8)	$4.75	$4.22	$3.98
	272TI1086	700°F	1/32" (0.8)	$4.75	$4.22	$3.98
	272TI1088	800°F	1/32" (0.8)	$4.75	$4.22	$3.98
PTJ Screwdriver Tip	272TI1085	700°F	1/64" (0.4)	$4.75	$4.22	$3.98
	272TI1087	800°F	1/64" (0.4)	$4.75	$4.22	$3.98

Tip	TT No.	Temp.	Tip Size Inch (mm)	PRICE 1-11	12-47	48-99
PTK Long Screwdriver	272TI1090	600°F	3/64" (1.2)	$4.75	$4.22	$3.98
	272TI1092	700°F	3/64" (1.2)	$4.75	$4.22	$3.98
	272TI1094	800°F	3/64" (1.2)	$4.75	$4.22	$3.98
PTL Long Screwdriver	272TI1096	600°F	5/64" (2.0)	$4.75	$4.22	$3.98
	272TI1098	700°F	5/64" (2.0)	$4.75	$4.22	$3.98
	272TI1100	800°F	5/64" (2.0)	$4.75	$4.22	$3.98
PTM Long Screwdriver	272TI1104	700°F	1/8" (3)	$4.75	$4.22	$3.98
	272TI1106	800°F	1/8" (3)	$4.75	$4.22	$3.98
PTN Screwdriver Tip	272TI1103	600°F	1/16" (1.6)	$4.75	$4.22	$3.98
PTO Long Conical	272TI1108	600°F	1/32" (0.8)	$4.75	$4.22	$3.98
	272TI1110	700°F	1/32" (0.8)	$4.75	$4.22	$3.98
	272TI1112	800°F	1/32" (0.8)	$4.75	$4.22	$3.98
PTP Conical	272TI1114	600°F	1/32" (0.8)	$4.75	$4.22	$3.98
	272TI1116	700°F	1/32" (0.8)	$4.75	$4.22	$3.98
	272TI1118	800°F	1/32" (0.8)	$4.75	$4.22	$3.98
PTQ Single Flat	272TI1113	600°F	1/32" (0.8)	$4.75	$4.22	$3.98
PTR Narrow Screwdriver	272TI1120	600°F	1/16" (1.6)	$4.75	$4.22	$3.98
	272TI1122	700°F	1/16" (1.6)	$4.75	$4.22	$3.98
	272TI1124	800°F	1/16" (1.6)	$4.75	$4.22	$3.98
PTS Long Conical Tip	272TI1119	600°F	1/64" (0.4)	$4.75	$4.22	$3.98
	272TI1127	700°F	1/64" (0.4)	$4.75	$4.22	$3.98
	272TI008	800°F	1/64" (0.4)	$4.75	$4.22	$3.98
PTT Conical	272TI1123	700°F	.025" (0.6)	$4.75	$4.22	$3.98
	272TI1125	800°F	.025" (0.6)	$4.75	$4.22	$3.98
PTX Slotted Bent	272TI1133	600°F	.020" (0.5)	$4.75	$4.22	$3.98
PTZ Slotted Bent	272TI1135	700°F	.020" (0.5)	$4.75	$4.22	$3.98

Silver Series Soldering Stations

"Ideal for Hi-temp Lead-Free Soldering!"

Pick your station. Pick your iron. The WS80 and WSD80 increase the ability to work on high-mass components where a greater controlled power is required. The WS80 has dial control temperature settings from 300°F to 850°F. The WSD80 has the extra digital feature of actual and preset soldering temperatures displayed. If more than one connection is needed in quick succession, then the WSD130 allows you to combine an 80W iron with any other Weller accessory. The unique silver heating element and tip configuration in the WSP80 iron is more conductive so that the heat passes directly into the tip.

The Weller low-mass tip has a 10% faster recovery time when compared against other conventional irons and tips. This achieves very little temperature loss when making mass connections or during fast soldering. Both digital display stations, the WSD80 and WSD130, have the added facility of being preprogrammed using the WCB1 calibration unit. Sensitive components demand precise temperatures and timed connection sequences. The WCB1 calibration unit also features temperature lock-out and set-back capabilities.

A

A. The WS80 Station Analog Static

Includes: WSP80 pencil; WPH80 holder; analog control electronics; antistatic housing; temperature dial control from 300°F - 800°F; automatic tool recognition; all Weller accessories up to 80W may be connected; temperature locking via key operated switch; accuracy ±2% of final value; and a soldering tool holder. **(USA)**

No. 272SO803 ..... **$235.00**

B

B. The WSD80 Digital Station

Includes: PUD80 station; WSP80 pencil; WPH80 holder; digital control electronics; antistatic housing; temperature control from 150°F - 850°F adjustable via buttons; automatic tool recognition; all Weller accessories up to 80W may be connected; calibration box may be connected for time (setback), locking functions (lock-out) and calibration; 3-position digital display for PRE-SET and READ VALUE; accuracy ±2% from input; and a soldering tool holder. **(USA)**

No. 272SO804 ..... **$335.00**

C

C. The WSD130 Digital Station

Includes: PUD130 base station only; Weller accessories ordered separately; accepts one 80W iron plus any other 50W accessory; digital control electronics; antistatic housing; two independent temperature controls from 150°F - 850°F adjustable via buttons; automatic tool recognition; calibration box may be connected for time (setback), locking functions (lock-out) and calibration; 3-position digital display. For both channels, PRE SET and READ VALUE may be switched over via button; accuracy ±2% of final value. **(USA)**

No. 272SO805 ..... **$335.00**

D

D. WSP 80 - 80W Soldering Pencil (Sold Separately)

No. 272SO806 ..... **$124.00**

E. WCB1 Calibration Unit

For temperature lock-out and set-back capabilities to ensure that the specified temperature setting can be maintained. **(USA)**

No. 272SO503 ..... **$172.70**

D

Tips for the WSP80 Soldering Irons

Tip	TT No.	Description	PRICE Ea.
	272TI900	Round tip 0.25mm	$5.95
	272TI901	Round tip 0.25mm	$5.95
	272TI906	Chisel tip 1.6mm	$5.95
	272TI907	Round tip 1.6mm	$5.95
	272TI902	Chisel tip 2.4mm	$5.95
	272TI908	Chisel tip 3.2mm	$5.95
	272TI905	Round tip 3.2mm	$5.95
	272TI903	Chisel tip 4.5mm	$5.95
	272TI909	Chisel tip 0.8mm	$5.95
	272TI910	Chisel tip 1.2mm	$5.95
	272TI851	Round bent tip .25mm	$5.95
	272TI852	Chisel bent tip 1.6mm	$5.95
	272TI856	Chisel bent tip 0.8mm	$5.95
	272TI853	Bent tip 1.2mm	$5.95
	272TI855	Long bent round tip 0.3mm	$5.95
	272TI857	45° knife tip	$5.95
	272TI789	Chisel tip 3.2mm	$5.95
	272TI157	Round tip 0.4mm	$10.50
	272TI433	Round tip 0.2mm	$9.80
	272TI432	Bent Round tip 0.2mm	$9.80
	272TI790	Single Flat tip 1.2mm	$5.75
	272TI431	Chisel Tip 1mm	$9.80
	272TI791	Single Flat tip 1.2mm	$5.75

No. 272PR179 Tip Adapter For WSP80 ..... **$13.95**

Accessories

Easier Field Desoldering SCD 100

Your self-contained Desoldering Gun is perfect for service technicians and some low volume desoldering applications. Built-in pump draws solder into the unique disposable collector tube. Three different tip sizes are available.

No. 272SO121 ..... **$199.00**
No. 272AC201 (SCD201) Disposable Tubes **$9.55**
No. 272TI122 (SCD112) .9mm tip **$17.25**
No. 272TI123 (SCD113) 1.2mm tip **$17.25**
No. 272TI124 (SCD114) 1.8mm tip **$17.25**

Solder-Mate™

This durable dispenser minimizes core solder usage and eliminates operator downtime by providing continuous solder wire availability. Holds 1 lb. solder.

No. 812SO001 ..... **$19.00**

Weller

"Ideal for Hi-temp Lead-Free Soldering!"

WES50 Soldering Station

For continuous production soldering to occasional user this soldering iron includes a new heater and sensor combination that allows for relatively quick heat-up and recovery. **Features**: automatic shut off after 99 minutes of inactivity, extending tip, and station life; cordless temperature lockout to prevent operators from raising the temperature to levels higher than specified for the board or component; cordless tip temperature calibration, which provides the user with the capability of resetting station temperature readings to variations in tip sizes and styles; quick heat-up and temperature recovery - allows continuous production soldering; slim, comfortable hand piece reduces fatigue. **Specs:** Accuracy: ±9°F; Temperature range: 350°F - 850°F; Output Voltage: 24 Volt. **(USA)**

A. No. 272SO507 (WES50) 50 W, 120 V **$115.00**
No. 272SO508 (WES50D) 50 W, 230 V **$115.00**
No. 272SO509 (WES50PU) Power Unit Only **$85.00**
Soldering Slim Pencil for WES50, ETA Tip
No. 272SO510 (PES50) 50 W **$35.00**
Soldering Stand and Sponge for PES50 Soldering pencil
No. 272SO511 (PH50) **$14.90**

WDD80VIL Desoldering Station

This compact yet powerful desoldering station uses an external air source. Has 80W of power which means lower temperature needed, less time on the board, and less potential for damage. Comes complete with the new DSV80 80W pencil style desoldering tool. The combination will provide faster heat-up and better performance than past stations. Can also operate with the WSP80 80 watt "Silver Series" soldering pencil and other Weller accessories, adding to the station's versatility. (Germany)

B. No. 272SO506 (WDD80VIL) **$669.60**

WAD100 Hot Air Station

If you work with rework stations where non-contact soldering and desoldering of SMD are needed, then the WAD100 Hot Air Station is for you. It connects to your shop air system and comes with the HAP1 100 watt hot air pencil. The hot air temperature is adjustable up to 1,000°F, and the air flow can be adjusted up to 10 liters/minute. (Germany)

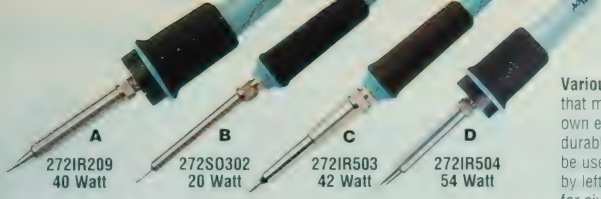
C. No. 272SO505 (WAD100) **$525.00**

WRS80IL Desoldering Station

The WRS80 80 watt desoldering station provides power and versatility plus a self-contained pump. This station will provide faster heat-up and improved performance. Which means lower power needed, less time on the board, less potential for danger, and has the power to maintain a constant temperature. The WRS80 includes the DSV80 80 watt pencil and stand. This station can operate with the WSP80 80W "Silver Series" iron. (Germany)

D. No. 272SO512 (WRS80IL) Desoldering Station..... **$837.00**
DS80 80 W Pencil Style Desoldering Tool
No. 272SO513 (DS80) **$189.90**
E. Iron/Stand for DS80 Desoldering Pencil
No. 272SO514 (DS80AP) **$229.00**
DSV80 In-Line Desoldering Tool
No. 272SO515 (DSV80) **$200.90**

Prices in this catalog are effective January 1, 2001. While we attempt to hold prices, we cannot control when our vendors increase prices.
All prices are subject to change without notice.
We reserve the right to correct misprints.



Various station/iron combinations can be applied to your soldering jobs ... that means more versatility. Quality is built into each compact unit which has its own extremely accurate temperature control system. All units are made of durable electrostatic protective material in unique blue. The iron and stand may be used separate from the main power unit or attached to either side for easy use by left or right handed people. The stand has a water reservoir and storage space for six tips. Plus, the antistatic cord has strain relief to extend cord life. **(USA)**

EC2002M-1

Calibrate the temperature you want with a simple twist of the dial! This soldering station has a three-digit LED display to monitor tip temperature and a control resolution of 1°F/1°C and stability of ±10°F. With this unit you can: Lock in the temperature in °C or °F; Calibrate for ISO 9000; Set back timed temperature for cost savings. **Specs:** 120V, 60Hz., 60W; Output voltage: isolated 24VAC. Tip Control Range: 350°F to 850°F (177°C to 454°C); Control setting resolution 1°F/1°C; Accuracy: ±9°F. This station *meets Mil-Std-2000*. **Includes:** Stand, 40W Soldering Tool, ETA Tip. **(USA)**

Complete Stand & 40W Soldering Tool, ETA Tip
No. 272SO110 ..... **$329.00**
Complete Stand & 20W Soldering Tool, EPH101 Tip
No. 272SO112 ..... **$319.00**
Complete Stand & 42W Hi-Cap Soldering Tool, EMA Tip
No. 272SO113 ..... **$319.00**

WCM1 Calibration Unit

Designed to work with the EC2002M Soldering Stations, this calibration unit is used to set a variety of functions of the station and calibrate the tip temperature of the iron to an outside temperature reference. Functions include: Timer Setback; Lock In; Load a fixed temperature into the station; Front panel control knob turn-off; °F and °C switch and display and reset station to original factory calibration. The unit simply plugs in between the station and soldering iron, and uses four "AA" batteries. **(USA)**
No. 272AC101 ..... **$172.70**

EC1002-1

The unit is dial calibrated in 10°F (6°C) steps. There are no high voltage spikes or magnetic fields present on the soldering tips due to the system thyristor power control with zero thyristor drive. **Unit**-120V, 60Hz, 60W. **Output**-24 Volts. Electronically-controlled temperature range of 350°F (177°C) to 850°F (454°C). **Includes:** Station, 40W iron and stand. **(USA)**

Complete Station with 40 Watt Iron/Stand
No. 272IR021 ..... **$245.00**
Complete Station with 20 Watt Iron/Stand
No. 272IR206 ..... **$245.00**
Complete Station with 42 Watt Iron/Stand
No. 272IR023 ..... **$255.00**

EC 1001/2001 Replacement Parts List

No. 272SO058 Sponge (each) **$1.70**
No. 272IR235 Heater Assembly (EC234) **$15.90**
No. 272SO239 EC1001-Control Board Complete with control potentiometer & Receptacle Calibrated **$79.90**

DEC1001

Combines the power of two temperature controlled stations in one, within the bench top space. Temperature ranges of 350°F to 850°F. Dual iron ESD power unit w/ two stands. Use in combination with any two irons. (EC1201A, EC1302A or EC1503A Sold Separately) *Soldering Irons must be ordered separately.* **(USA)**

No. 272SO1001 ..... **$249.00**
A. No. 272IR209 40W Iron Only EC 1201A **$99.90**
B. No. 272SO302 20W Iron Only EC 1302A **$99.90**
C. No. 272IR503 42W Iron Only 1503A **$110.00**
D. NO. 272IR504 54W Iron Only 1204A **$136.95**

EM Series Tips

Tip	TT No.	Model No.	Tip Size Inch	Tip Size (mm)	PRICE 1-11	PRICE 12-47	PRICE 48-99
	272TI177	EMA	1/16	(1.6)	$9.35	$8.44	$7.95
	272TI179	EMB	3/32	(2.4)	$9.35	$8.44	$7.95
	272TI183	EMH	1/32"	(0.8)	$9.35	$8.44	$7.95
	272TI185	EMY	1/8"	(3.3)	$9.35	$8.44	$7.95

EPH - Series Tips

Tip	TT No.	Model No.	Description	Tip Size Inch(mm)	PRICE 1-11	PRICE 12-47	PRICE 48-99
	272TI220	EPH101	Micropoint	1/64"(0.4)	$3.15	$2.97	$2.80
	272TI235	EPH110	Conical	1/16"(1.6)	$3.15	$2.97	$2.80
	272TI233	EPH108	Chisel	7/64"(2.8)	$3.15	$2.97	$2.80
	272TI234	EPH109	Conical	1/32"(0.8)	$3.15	$2.97	$2.80
	272TI222	EPH102	Bent Conical	1/32"(0.8)	$3.15	$2.97	$2.80
	272TI226	EPH104	Bent Conical	3/64"(1.2)	$3.15	$2.97	$2.80
	272TI232	EPH107	Chisel	5/64"(2.0)	$3.15	$2.97	$2.80
	272TI230	EPH106	Screwdriver	1/64"(.04)	$3.15	$2.97	$2.80
	272TI237	EPH111	Screwdriver	.025"(.06)	$3.15	$2.97	$2.80
	272TI224	EPH103	Single Flat	1/32"(0.8)	$3.15	$2.97	$2.80
	272TI228	EPH105	Single Flat	3/64"(1.2)	$3.15	$2.97	$2.80

ET Series Tips

Tips For EC1201A, EC120AFE, EC1204, WCC100, WES80 Irons.

Tip	TT No.	Model No.	Description	Tip Size	PRICE 1-11	PRICE 12-47	PRICE 48-99
	272TI187	ETAA	Single Flat	1/16"	$3.95	$3.90	$3.59
	272TI189	ETBB	Single Flat	3/32"	$3.95	$3.80	$3.59
	272TI148	ETCC	Single Flat	1/8"	$3.95	$3.80	$3.59
	272TI152	ETDD	Single Flat	3/16"	$3.95	$3.80	$3.59
	272TI162	ETO	Long Conical	1/32"	$3.95	$3.80	$3.59
	272TI168	ETS	Long Conical	1/64"	$3.95	$3.80	$3.59
	272TI191	ETJ	Long Screwdriver	1/32"	$3.95	$3.80	$3.59
	272TI156	ETK	Long Screwdriver	3/64"	$3.95	$3.80	$3.59
	272TI160	ETM	Long Screwdriver	1/8"	$3.95	$3.80	$3.59
	272TI166	ETR	Narrow Screwdr	1/16"	$3.95	$3.80	$3.59
	272TI3204	ETA	Screwdriver Tip	1/16"	$3.95	$3.80	$3.59
	272TI144	ETB	Screwdriver Tip	3/32"	$3.95	$3.80	$3.59
	272TI146	ETC	Screwdriver Tip	1/8"	$3.95	$3.80	$3.59
	272TI150	ETD	Screwdriver Tip	3/16"	$3.95	$3.80	$3.59
	272TI154	ETH	Screwdriver Tip	1/32"	$3.95	$3.80	$3.59
	272TI164	ETP	Conical Tip	1/32"	$3.95	$3.80	$3.59
	272TI182	ETT	Conical Tip	.024"	$3.95	$3.80	$3.59
	272TI186	ETU	Single Flat	1/64"	$3.95	$3.80	$3.59
	272TI188	ETV	Single Flat	.024"	$3.95	$3.80	$3.59
	272TI158	ETL	Screwdriver Tip	5/64"	$3.95	$3.80	$3.59

No. 272PR179 WSP Tip Adapter **$13.95**

Weller

The Stations...

WTCPTFE -
(WTCPT w/TC201FE) **(USA)**
No. 272IR001 .. **$227.35**

EC10021FE-
(EC1002 w/ EC1201FE Iron-Dial Display) **(USA)**
No. 272IR0021..... **$289.95**

EC20021FE-
(EC2002 w/EC1201FE
Iron-Digital Display) **(USA)**
No. 272IR0022.. **$399.00**

The Irons...

Designed for use with the Weller® Fumex system, adjustable 3/16" dia. stainless steel exhaust tube (with 3/16" dia. x 7' length of vinyl tubing). **(USA)**

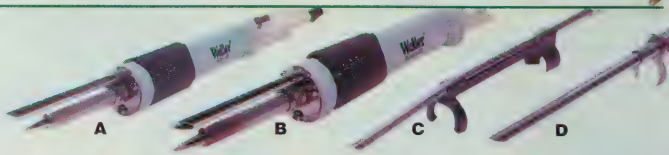
Irons & Adapters

A. 42W iron w/PTA7 tip & extraction tube, use w/Weller WTCPT
No. 272IR202..... **$97.85**

B. 40W iron w/ETA tip & extraction tube, use w/EC series stations
No. 272IR1202 ..... **$140.90**

C. Clip attachment for Weller 1301, 1302 & 1503 series irons
No. 272AC006 ..... **$45.60**

D. Adapter for Hakko-926, 927, 928,900mm
No. 272AC008 ..... **$66.15**



A. The TC201FE equipped with ET Series tip PTA-7, issued with Weller WTCPS & WTCPR stations.
B. The EC1201AFE, equipped with ET Series tip ETA, is used with Weller EC1001, EC-1002, EC-2002 and EC2001 stations.
C. Clip attachment to convert Weller 1301, 1302 and 1503 for use with the Weller Fume system.
D. Fume extraction kit converts existing standard and micro irons for use with the Weller Fume system.

Hot Air Stations

WHA 2000 Self-Contained Hot Air Rework System

Like its sister station, this powerful repair station has all the features of the WHA 1000 plus an air turbine and separate vacuum pump. Your standard system features: 10 to 50 liter-per minute air turbine; non-adjustable low-level 0.6 bar vacuum pump, to protect pads and components; a one foot pedal to control for both air and vacuum. An optional second foot pedal and wired remote are available. The unit is ESD safe and has an ionizing circuit to provide static-free hot air. One hand control operates both air and vacuum and can be used with the foot pedals. The unit also has a Standby Mode that blows air at seven liter/minute at the set temperature. **Specifications:** Temperature 300°F to 1000°F; Airflow 10 to 50 liters/min; 0.6 bar vacuum; 820W total, 730W handpiece. *(Nozzles not included)* (Germany)
No. 272IR211 ..... **$1559.00**

Fume Extractors

Fume Extractor

Small, compact and quiet, this portable unit is designed to cleanse fumes from up to two fume extraction irons; the required low pressure is produced by a maintenance-free injector pump. An active carbon exhaust filter eliminates unpleasant odors and polluted air which is cleansed by a pre and main filter system. This system guarantees a separation degree of 99.995% DOP.
Specifications: Noise Level 39 db(A); Operation Pressure 3.5 to 7 bar. (Germany)

No. 272SO303.....**$699.90**
No. 272AC219 3/Pk. Prefilter **$5.00**
No. 272AC089 4-Stage Filter Cartridge **$74.55**

WHA300 Hot Air Station

A low cost self-contained hot air station with 700 watts of heating power for the toughest reflow jobs. Temperature and air flow are controlled on a highly visible front panel. Extremely compact size uses less space on the bench. Air flow can be activated either by a finger switch on the hand piece or with an optional footswitch. A full range of nozzles is available. Integrated turbine can be regulated from 10 liters/min to 50 liters/min. Temperature range is 125 to 1022°F. Features a built-in hand piece holder. (Germany))
No. 272SO165 ..... **$779.25**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

WRS Rework Systems

Weller

The Stations

TEK 3000 WRS Rework Center

Design to handle all rework and repair of mixed technology boards. It has a built-in microprocessor that provides simultaneous controlled desoldering, soldering and hot air functions with complete accuracy and reliability. An operator lock-out feature prevents any unauthorized changes. The TEK 3000 has its own internal pump-eliminating the need for shop air. Provides static-free hot air. Includes: Weller WRS, 80W Soldering Iron, 80W Desoldering Pencil, 100W Hot Air Pencil, Thermal Tweezer and Stand System. **Specifications**: Dimensions: 10.6"L x 9.5"W x 4.1"H; Wt.: 12.20 lbs; Voltage: 120V, 60Hz/24V handpiece; Input Watts: 300W; Air flow: 20" HG; Air Flow Hot Air: 10-1/min. increments; Timer Set: 1-60 secs; Temp. Range: Hot Air 300° F - 980° F. Solder/Desolder 300° F - 850°F; Temp. Set-back. **Meets all MIL specs.** (Germany)

No. 272SO822 (WRS3000ST) **$1739.00**

LEASING AVAILABLE!

WRS7000 Seven-Function Rework and Repair Center

This self-contained system comes complete with the high powered WSP80 (272SO806) 80 watt soldering iron, the DSV80 (272SO515) 80 watt inline desoldering pencil, the 100 watt HAP1 (272IR003) hot air pencil and the WTA50 (272PR051) SMD tweezers. The 700 watt Hot Air Pencil with its built-in vacuum pick-up and static-free air flow is capable of removing or replacing the largest of components. The system also has a vacuum pick-up pen for component handling as well as a precision dispenser for solder paste or adhesive dispensing. A full complement of hot air nozzles are available to cover the smallest to the largest SMT applications. ***Meets Mil-Specs.*** (Germany)

No. 272SO168 ..... **$4595.00**

Weller® Preheat Plate

24V, 50W Adjustable from 125°F to 390°F.

No. 272AC030 ..... **$266.65**

Rework System Accessories

Thermal Wire Stripper

Features variable temperature control for stripping all types of material. Blades sold separately

No. 272AC020 ..... **$373.50**

Blades

No. 272AC5872 12-18 AWG **$57.50**

No. 272AC5729 12,14, 24, 26 AWG .. **$57.50**

No. 272AC5732 14,18, 22, 26 AWG .. **$57.50**

Desoldering Iron DSV80 - Hot Air

No. 272SO515 ..... **$276.40**

Tiplets for 5088

No. 812TI4005 Nozzle I.D. .032 ..... **$16.90**

No. 812TI4006 Nozzle I.D. .040 ..... **$16.90**

No. 812TI4007 Nozzle I.D. .062 ..... **$16.90**

No. 812TI4008 Nozzle I.D. .089 ..... **$16.90**

Nozzles for DSV80 Desoldering Iron

Nozzle	TT No.	O.D. x I.D.	PRICE
	272TI3164	0.062 x 0.024	$9.70
	272TI3166	0.093 x 0.024	$9.70
	272TI3168	0.078 x 0.031	$9.70
	272TI098	0.098 x 0.046	$9.70
	272TI3170	0.125 x 0.073	$9.70
	272TI3174	0.093 x 0.043	$9.70
	272TI3176	0.093 x 0.024	$9.70

Solder Iron – EC1204A - 54W

No. 272SO120 ..... $106.00

Tips – Pick the ET Series Tips you need, see page 177.

Hot Air Pencil HAP-1

No. 272IR003 ..... $245.00

Hot Air Nozzles for HAP-1

Tip	TT No.	Type Component	I.D. (MM)	PRICE
	272TI772	Flat	12.0 x 1.50	$24.55
	272TI773	Flat	10.0 x 1.50	$24.55
	272TI774	Flat	8.0 x 1.50	$24.55
	272TI775	Flat	10.0 x 1.50	$24.55
	272TI776	Dual	8.0 x 1.50	$24.75
	272TI777	PDS06-08	6.0 x 6.5	$24.75
	272TI778	PDS014	6.0 x 9.0	$24.75
	272TI779	PDS016L	10.5 x 10.5	$47.90
	272TI785	PLCC44, QFP61, QFP80	18.0 x 18.0	$54.95
	272TI786	Bent	2.0	$32.40

WT-50 Tips

1mm Chip 0405-1805, SOD80, MELF

No. 272TI014 ..... **$21.40**

3mm Chip 1808-1812, SOD87, SOT 23, 143, SOD 89

No. 272TI013 ..... **$21.40**

6mm SOT 192, SO4-S08

No. 272TI021 ..... **$21.70**

12.5mm SO14, SO16, SO114, SOJ16

No. 272TI024 ..... **$49.00**

18.5mm SO20, SO201, SOJ20

No. 272TI025 ..... **$49.00**

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Weller

For SMD Devices — Heat-Shrinking — Plastic Welding!

WHA 700 Hot AirRework System

(Previously WHA 1000) Precise temperature control reduces the time boards and components are subjected to thermal stress. Precisely replace chips as small as 25 Mil pitch. Available in heated and non-heated rework tables. Shop air required. Micrometer adjustment for X-Y positioning. Provides static-free hot air. This powerful integrated repair station that's perfect for repair or replacement of large SMD IC's. Provides static-free hot air and suction capabilities in one unit. easy-to-use pencil with interchangeable heads. Working temperatures are automatically controlled and continuously adjustable up to 500°C/1000°F. Airflow is variable from 10-50L/min. (Germany)

WHA 700 Power Unit & Handle

A. No. 272SO100 ..... **$1126.90**

LEASING AVAILABLE!

Rework Table

Designed to hold hot air tools where precise vertical control is needed. The tool is clamped into the rework stand and raised or lowered depending on the operation needed. The stand can accommodate boards up to 12" x 24".

No. 272SO824 WTU100 *(Not Shown)*..... **$951.55**

A hot plate control box comes with WTH100 to provide temperatures from 125°F to 800°F

B No. 272SO827 WTH100 ..... **$1636.35**

Circuit Board Holder - WBH100

Attach this circuit board holder to your WTU100 or WTH100 hot air stand, or use it separately. The board holder includes an assortment of several styles of pins and clamps to hold a variety of boards. It can hold a board 12" wide and more than 15" long. Can also be attached to WQB1000, WQB1500, and WQB2000 BGA/SMT rework machines. **(USA)**

C. No. 272SO825 ..... **$679.00**

Please call for a demo in your area!

Stainless Steel Hot Air Nozzles For WHA - Series

	TT No.	Suggested Application	Pin Count	Inside Nozzle Dimension "A" Dims "A"	"B" Dims "B"	PRICE
	272TI843	SO, SOJC, DSO	16	.394"	.315"	$58.50
	272TI842	SO, SOP, DSO	20	.551"	.394"	$58.50
	272TI841	SOJC, SOP	28	.748"	.472"	$58.50
	272TI840	SOJ, SOIJ		.846"	.551"	$58.50
	272TI818	QFP	42,44,60	.555"	.555"	$57.90
	272TI814	QFP	64	.697	.697"	$57.90
	272TI812	PLCC, QFP, BQFP	72	.688	.925	$57.90
	272TI833	NQ30	120,128,144	1.26"	1.26"	$72.50
	272TI839	PLCC	20	.433"	.433"	$58.50
	272TI838	PLCC	28	.571"	.394"	$58.50
	272TI837	PLCC	32	.610"	.512"	$58.50
	272TI807	PLCC	52	.803"	.803"	$57.90
	272TI804	PLCC	68	.997"	.997"	$57.90

WQB2000 BGA/SMT Rework and Repair System

Your single unit BGA/SMT Rework System makes it possible to perform complete rework and repair operations of BGA and SMT devices without thermal or physical damage. The module stores six parameters: hot gas temperature, hot gas flow rate, preheat temperature, preheat time 1, preheat time 2 and reflow time. The precision hot gas assembly used with templates makes it possible to remove, paste and replace components. **Contents:** index pins; training kit with oven; portable vacuum pen; alignment square, spatula, accessory kit; manual with instructions on determining the template sizes needed for each application.

No. 272SO2000 ..... **$7999.00**

LEASING AVAILABLE!

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

A. Model 1095

Rugged design and high and low temperature settings. 1000 watts (maximum), 120V AC, 60Hz., 3-wire grounded, 790°F - low, 1200°F - high.

No. 812PR1095 ..... **$57.10**

B. Model 6970HD

Two speed and two heat settings give the 6970HD the ability to handle heavy-duty jobs and withstand long and constant use. Ideal for curing epoxy and heat shrinking applications. 120V AC, 3-wire grounded plug, 6' cord, Dual Temp: 1000°F (750W) and 700°F (350W). Uses the same accessories as 1095. Use of optional accessories requires adapter No. 812PR059. (See below.)

No. 812PR6970 ..... **$135.85**

Accessories For 812PR1095 & 812PR6970

C. No. 812PR080 Reducer for concentrating heat **$6.55**
D. No. 812PR081 Scraper for paint stripping **$6.55**
E. No. 812PR082 Reflector for heat shrink **$6.55**
No. 812PR059 Adapter for baffel *(Not Shown)* **$11.55**

F. Model 6966C

Designed for assembly & repair applications. Delivers 750°F - 800°F hot air at nozzle or ambient air. Comes complete with four attachments. 120V AC, 60Hz., 2.2 amps, 3-wire grounded plug,6' cord.

No. 812PR010 120VAC..... **$119.00**
No. 812PR011 240VAC..... **$159.90**

Accessories for 812PR010

G. No. 812IR132 1/2" Large reflector **$2.50**
H. No. 812IR134 1-1/2" Large reflector **$2.65**
J. No. 812SO032 Reducing baffle..... **$4.55**
K. No. 812SO034 1/8" Precision Reflector **$8.95**

Soldering Iron Analyzer

Accurate and portable with a battery life of 50 hrs; LCD read-out in °F and °C; tests soldering stations in compliance with *D.O.D.-2000*: tests tip temperature, tip to ground resistance and tip to ground noise. **(USA)**

No. 272ME200 (WA 2000). **$649.70**

DS Series Tips

For WDD80, WRS80, DS80, DSV80, DS100, DS200, DS500, DS600 and DS800
(Screw-in type)

(1-11) **$9.75** (12-47) **$8.95** (48-99) **$8.60** (100+) **Call for Quote**

TT No.	Weller	O.D.	I.D.	Lgth	TT No.	Weller	O.D.	I.D.	Lgth
272TI3164	DS110	.060"	.025"	.50"	272TI3170	DS114	.125"	.071"	.50"
272TI3166	DS111	.090"	.025"	.50"	272TI3172	DS115	.060"	.025"	.75"
272TI3168	DS112	.076"	.036"	.50"	272TI3174	DS116	.098"	.045"	.75"
272TI098	DS113	.098"	.046"	.50"	272TI3176	DS117	.090"	.025"	.75"

High mass, threaded for DS1203 iron *(Standard DS tips also fit system)*

(1-11) **$9.35** (12-47) **$8.44** (48-99) **$7.95** (100+) **Call for Quote**

TT No.	Weller	O.D.	I.D.	TT No.	Weller	O.D.	I.D.
272TI110	DSH110	.060"	.025"	272TI111	DSH111	.090"	.025"
272TI112	DSH112	.076"	.036"	272TI113	DSH113	.098"	.045"
272TI114	DSH114	.125"	.071"				

9000 Series Tips

Tip	TT No.	Model No.	Description	Tip Size	Reach Inch	PRICE
	812TI176	9010	Precision point	0.01"	0.78"	$6.15
	812TI178	9011	Spade	0.03"	0.71"	$6.15
	812TI180	9012	Screwdriver	0.05"	0.62"	$6.15
	812TI253	9013	Spade	0.06"	0.71"	$6.15
	812TI181	9014	Spade	0.02"	0.85"	$6.15
	812TI182	9015	Screwdriver	0.07"	0.70"	$6.15
	812TI184	9016	Screwdriver	0.09"	0.55"	$6.15
	812TI257	9017	Screwdriver	0.03"	0.60"	$6.15
	812TI258	9018	Screwdriver	0.05"	0.60"	$6.15
	812TI252	9050	Conical	0.02"	0.85"	$6.15
	812TI254	9051	Screwdriver	0.13"	0.50"	$6.15
	812TI9052	9052	Short spade	0.02"	0.45"	$6.15

Tips require tip retainer assembly No. 9037 **No. 812IR9037** **$18.45**

9000 High Capacity Thermal Thrust Tips

Tip	TT No.	Model No.	Description	Tip Size	Reach	PRICE 1-11	12-47	48-99
	812TI9056	9056	Conical	0.02"	0.50"	$6.25	$5.65	$5.40
	812TI057	9057	Screwdriver	0.03"	0.50"	$6.25	$5.65	$5.40
	812TI058	9058	Screwdriver	0.05"	0.50"	$6.25	$5.65	$5.40
	812TI060	9060	Screwdriver	0.10"	0.50"	$6.25	$5.65	$5.40
	812TI061	9061	Screwdriver	0.13"	0.50"	$6.25	$5.65	$5.40

Tips require tip retainer assembly No. 9919 **No. 812TI919**..... **$16.70**

"Why Buy An Imitation When You Can Buy An Original for Less!"

Quantity Pricing Available!

Weller

Industrial Soldering Irons

Controlled Output (Series W). High-quality tools with controlled temperature. Selection (600°, 700° or 800°F) by changing tips. 120V, 50/60Hz. Use only with Weller PH and SF series soldering tool stands to create a complete soldering station. These are automatically-controlled tools and should be used with "non-heat-sinking" Weller stands. Three wire cord. **(USA)**

W60P
Versatile 60W iron, a compact 7-1/4" long & lightweight at 2-1/2 oz. Furnished with 700°F, 1/16" screwdriver tip No. 272TI3112 and two wire cord. **(USA)**
No. 272IR324 (1-11)**$60.00** (12-47)**$57.00** (48+)**$54.00**

W60P-3
Same as 272IR324, with three wire cord. **(USA)**
No. 272IR328 (1-11)**$60.00** (12-47)**$57.00** (48+)**$54.00**

W100PG
For heavy-duty use, this 100W iron is 8-1/4" long. Furnished with 700°F, 3/8" screwdriver tip No. 272TI3160-CT6F7 and two wire cord. **(USA)**
No. 272IR320
(1-11) **$65.65** (12-47) **$62.37** (48+) **$59.00**
W100P-3. Same as 272IR320, with three wire cord.
No. 272IR322
(1-11)**$69.75** (12-47)**$66.26** (48+)**$62.78**
All Controlled Output Irons use CT type tips.

SP-80 80 Watt
Medium-duty pencil iron for miscellaneous repairs. 9-3/4" OAL. 3/8" chisel tip. 120V. **(USA)**
No. 272IR282
(1-3)**$28.35** (4-11)**$26.93** (12+)**$25.52**

SP-120 120 Watt
Heavy-duty irons for greater output needed in applications such as auto radiator work or stained glass. 272IR270 is 11-3/8" long. Chisel tip. 120V. **(USA)**
No. 272IR270
(1-11)**$49.80** (12-47)**$47.31** (48+) **$44.82**

SP-175 175 Watt
For high mass jobs; 12-1/2" long. Wt. 1 lb. 5/8" chisel tip. 120V. Two wire cord. **(USA)**
No. 272IR272
(1-11) **$60.65** (12-47)**$57.62** (48+)**$54.59**

Marksman SP-23 2 Wire 25 Watt
Fine quality soldering irons featuring stainless-steel barrels, nickel-plated copper tips, heat and impact-resistant handles. Featherweight soldering iron with replaceable tips. 8-1/4"L. 120V. Pencil handle. 1/8" dia. tip. **(USA)**
No. 272IR274
(1-11) **$13.20** (12-47)**$12.54** (48+) **$11.88**

Tips For Marksman Irons - 2 Tips/Card

TT No.	For Model	Tip Size Description
272TI210	SP-23	Cone Shape
272TI214	SP-23	Screwdriver
272TI218	SP-23	Chisel

(1-11) **$3.95** (12-47) **$3.56** (48+) **$3.36**

All Handles And Heaters Are Interchangeable!

Standard Soldering Handles And Heaters

(Previously Ungar)

Soldering Iron Handles
Durable, balanced handles all feature cool, "soft-touch" grips and accept the full range of Weller heaters and integral heater tips. Three-wire grounded. **(USA)**
No. 812IR148 (Model 7500) **$32.95**
All-purpose, economical two-wire blue handle
No. 812SO058 (Model 7770) **$14.25**
Same as 7770 except red in color
No. 812SO056 (Model 7760) **$14.25**

Double Insulated!
DI® Soldering Iron
Handle has cool "soft-touch" grip with flexible two-wire cord. **(USA)**
No. 812SO030 Model 5550..... **$19.95**

DI® Heating Elements

Use 1/4" Thread-On Tips Model 362, 45W. 900°F.
No. 812IR064 ..... **$27.40**

Complete Irons
Ready-to-use soldering irons feature interchangeable handles, heaters and tips. Handles are three-wire grounded with "soft-touch" grips. Uses 1/4" Thread-On Tips. **(USA)**
No. 812IR035 SL335, 33W, 800°F..... **$38.20**
No. 812IR045 SL345, 45W, 900°F..... **$41.30**

WP Series Irons
Small, lightweight handle now with cushioned grip. Quick change, knurled collar makes changing heaters simple. Iron-plated tips for longer life and greater soldering efficiency. Ideal for a wide variety of electronic and electrical work. **(USA)**
No. 272IR025 25W **$29.90**
No. 272IR030 30W **$40.15**
No. 272IR035 35W **$42.00**

Replacement Heaters
No. 272PA025 20W Iron **$20.50**
No. 272PA030 30W Iron **$22.85**
No. 272PA035 35W Iron **$23.00**

WP Series Irons Tips
(1-11) **$3.95** (12-47) **$3.55** (48+) **$3.40**

Tip	TT No.	Tip	Description
	272TI1130	1/16"	Screwdriver
	272TI1132	3/32"	Screwdriver
	272TI1128	1/8"	Screwdriver
	272TI1134	3/16"	Screwdriver
	272TI1136	1/32"	Single Flat
	272TI1138	1/32"	Screwdriver
	272TI1140	1/32"	Conical
	272TI1142	1/16"	Narrow Screwdriver

Thin Pencil Soldering Iron

12W miniature lightweight, pencil thin soldering iron. Weighs 7 oz. and measures 7" less tip. Tip temperature of 800°F. Uses MP series tips. **(USA)**
No. 272IR344 (WM120) **$40.10**

MP Series of Slide-in Tips
(1-11) **$4.60** (12-47) **$4.64** (48+) **$4.38** (100+) **CALL**

Tip	TT No.	Tip	Description
	272TI194	1/64"	Conical
	272TI198	1/32"	Single Flat 40°
	272TI202	3/64"	Single Flat 40°
	272TI204	1/16"	Narrow Screwdriver
	272TI206	5/64"	Screwdriver

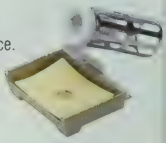
Accessories

Soldering Tool Stands
Heavy non-sliding cast aluminum bases with sponge receptacle and "non-heat-sinking" spring stand and funnel. For 272IR324, 272IR328, 272IR025, 272IR030 & 272IR035 Irons
No. 272SO042 ..... **$18.90**

Replacement Parts For Soldering Tool Stands
Funnel for 272SO042
No. 272IR268..... **$4.10**
Sponge for 272SO04 & 272SO038
No. 272SO058 ..... **$1.70**

Soldering Iron Holder
Designed to hold all Weller soldering and desoldering irons. Sturdy, non-skid design with cool ceramic mouthpiece. Sponge included. **(USA)**
No. 812SO076 ..... **$34.10**
No. 812SO028 Replacement sponge..... **$3.45**

Soldering Iron Holder
Use with Weller Standard Line, Imperial Line, Three-wire Line and DI Line. Attaches easily to bench; angle adjustable. **(USA)**
No. 812SO074..... **$16.95**



Soldering Iron Holder
Micro-size ceramic mouthpiece. Sponge included. **(USA)**
No. 812SO094..... **$23.80**

Thermolyne Hot Plate

Embedded heating elements heat fast. Demand-type thermostat control. Aluminum top plate temperature range 100° to 700°F (38° to 371°C). Superior temperature stability of ±1.1°C from 100° to 371°C. Stainless steel, ventilated case. 50/60 cycles, 120V, 6.2 amps, 750W.
No. 778MI030 ..... **$204.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

DIGITAL AIR BATH PACKAGE

Includes: ZT-1 Digital Airbath™, ZT-2 Air-Pencil, ZT-3 SMD Vacuum, and ZT-4 Fume Extractor.
Purchased Separately Price.....$2820.00
No. 758TT014 .....ONLY $2478.73
SAVE $341.27

ANALOG AIR BATH PACKAGE

Includes: ZT-1 Analog Airbath™, ZT-2 Air-Pencil, ZT-3 SMD Vacuum, and ZT-4 Fume Extractor.
Purchased Separately Price.....$2335.00
No. 758TT010 .....ONLY $2096.25
SAVE $238.75

A. ZT-1 Digital Airbath™ Pre-Heat System

Terrific for low volume production PCB work, prototyping, and/or in rework. The convenient microprocessor control permits temperature selection with and easy-to-use "set/read" digital display function with time/temp ramp profiling is also available at the front panel. Use the Airbath is most helpful for preheating troublesome ceramic, multi-layer and heavy ground plane circuit assemblies. Fully portable the Airbath makes achieving the same low thermal profiles found in high end production machines. Is the intelligent solution to stop burning up your printed circuit board assemblies, preventing thermal degradation, thermal shock, lifting pads and traces, substrate delamination, measling and warping of your boards. **Specs:** Air Volume: 24CFM; Temp Control: closed loop sensing with programmable set/read & ramp; Temp setting: a) ambient fanning, b) variable digital temperature; Power: 120VAC/60Hz/5A; Air supply: Self-Contained. **(USA)**

No. 901SO111 Digital Airbath **$1499.00**

ZT-1 AirBath™ Pre Heat System

No. 901SO201 Analog Airbath **$1000.00**

B. Air Pencil ZT-2

The ZT-2 provides a non-contact and safe method of soldering thermally-sensitive semi-conductors (QFPs, PLCCs and SOICs) and delicate ceramic chips. Unlike traditional soldering "tips" which oxidize, the ZT-2 utilizes long-life stainless steel Air Tips including an oval air tip which comes standard with each ZT-2 Air Pencil System. The ZT-2's pin-pointed air stream quickly reflows fine pitch devices never touching the delicate leads or pad! Primarily a soldering tool, it is very effective for removal of SMT chips and SOICs. Air Pencil presents a superior method for "touching up" pads over contact soldering irons which can leave tags on the pad causing co-planarity problems. The ZT-2 "hot levels" and leaves only a smooth pad underscoring the many intrinsic advantages of non-contact convective reflow. **Features:** a closed loop electronic variable (adjustable) temperature control system; variable air control with an ultra-light setting for miniature chips; a safe & low 24V handpiece; a holder for the handpiece integrated right into the center of the design itself (for left or right handed users); and an ESD base and handpiece. Plus, the handpieces stay cool to the hand even after hours of use. Includes: one oval tip and two stainless steel tweezers.

No. 901SO203 ..... **$900.00**

Stainless Steel ZT-2 Air Tip Nozzles

No. 901TI204 Oval Tip ..... **$16.00** **No. 901TI205** Round Tip **$16.00**

No. 901TI206 Angled Tip ..... **$20.00** **No. 901TI207** Fine Jet Tip **$16.00**

No. 901TI006 Fan Air Tip **$25.00**

C. ZT-3 Air Pick SMD Vacuum

The Air Pick is an all-purpose handling system for miniature surface mount devices and tiny components found in today's microelectronic production world. Fully ESD safe, the ZT-3 features its own self-contained & long-life diaphragm vacuum pump saving the operator & technician from the physical exertion that many vacuum tools require to operate. Includes: 2 full-metal probes, and 2 ESD safe suction cups (1/8" & 1/4"). **Specs:** Electrical Rating: 120VAC/60Hz; Vacuum Supply: self-contained diaphragm pump; Mil spec compliant; Weight: 3-1/2 lbs. 5-1/4"W x 4-3/8"H x 5-1/2"D. **(USA)**

No. 901SO312 ..... **$150.00**

For Optimum results, use the ZT-2 Air Pencil with the Pre-Heat System

D. ZT-4 Air Plus Fume Extractor

This compact, personal air cleaning system is powerful enough to effectively filter occupational pollutants and health hazards such as smoke, chemicals, airborne dust, fumes, and obnoxious odors. Activated carbon filtration traps over 80% particulant matter while the powerful extraction fan draws smoke and fumes away from your personal breathing space. Completely ESD safe, it also has an ESD wriststrap receptacle. **Specs:** Air Supply: long life, internal fan; Filtration: Activated Carbon. 6-3/8"W x 8-1/4"H x 6"D.

No. 901SO004 120VAC / 60Hz **$150.00**

No. 901SO003 230VAC / 50Hz **$150.00**

Replacement carbon filters, 5 pack.

No. 901SO002 ..... **$20.00**

E. Adjustable Board Cradles

The portable, benchtop design permits multiple board assemblies within the adjustable tracks. Boards can be inserted and removed either from the top side or by slide entry into the tracks from the sides. The ABC-1 with the tracks capable of holding PCBs up to 10" x 18" within the adjustable tracks. The ABC-2 is capable of holding PCBs up to 20" x 18". The table-top design permits much larger military and satellite boards to sit directly on top of the frame for either assembly, pre-heating, soldering or desoldering tasks. Both come equipped with four fully-detachable legs which permit two-leg, inclined/tilted, low-profile presentation (for component insertion assembly) and four-leg, table-top presentation (for cutting leads, board prep work, pre-heating, soldering and desoldering thru-hole and SMD components and quality inspection). A perfect complement to the AirBath ZT-1 convective pre-heater.

No. 901SO202 ..... **$150.00**

F. Low Melt™ Desoldering Wire

Simply preheat your PCB with the AirBath, apply the flux, wait for it to warm, add the Solder Wire and watch the co-metalization begin....all at under 300°F. Within seconds you can remove the chip, clean the area and you're ready to replace the new SMD using the Air Pencil and Quick Stick solder paste. **(USA)**

No. 901SO013 16ft. **$60.00**

Flux, No Clean / Non-flammable Remover .5oz.

No. 901SO014 ..... **$10.00**

Flux Remover / Non-flammable 2oz.

No. 901SO056 ..... **$6.00**

Solder Paste, Eut. (63/37) 12gr / 0.43oz.

No. 901SO012 ..... **$10.00**

SMD Bench Rework Kit

The comprehensive bench top kit for serious SMT prototyping, production and/or rework. **Kit includes:** LOW MELT solder wires (16', 32'); Flux, no-clean/non-flammable .5oz. and Flux remover, non-flammable 2oz.; Solder Paste, Eutectic (37lb.) Long Life (.43oz.); Plunger for 10cc Syringe & Dispensing Tips (18, 20, & 22 gauge); Foam Swabs, Small 10pk. Large 20pk; Desolder Braid/Wick - width .075"; length 5'; Probe set, four stainless steel probes. **(USA)**

No. 901CH010 ..... **$150.00**

QX2

METCAL

QX2 Convection Rework System

From the moment you take it out of the box, you know the QX2 is like no other convection system. Set-up is fast and easy, requiring no special tools, fixturing, or testing. Unlike conventional convection systems, the Metcal QX2 provides simplified controls and automation, reducing operator training requirements. The one-button system controller is moveable to suit your needs. During the removal cycle, the vacuum pick-up automatically lifts the component from the board when the solder reflows, and then shuts off the heat. The time used in the removal cycle is stored and displayed as a guide for establishing the minimum time to reattach a similar component.To vary heating all that is required is that the airflow level be adjusted. This makes optimizing heat delivery very simple. An easy-to-use under-board preheater is available to heat boards evenly and prevent warping during the rework of large components and multilayered boards. **Specs**: Input Voltage: 90-132 VAC; Convection System: heater: 550W, rated current: 5A, air flow: 20 to 50L: Preheater: heater: 950W, rated current: 8.5A, heating surface: 6" x 6". **(USA)**

A. QX2 System with Board Holder, Controller and Preheater. ***(A, C, D, & E)***
No. 551PR811 ..... $4750.00

B. QX2 Convection Rework System ***(B ONLY)***
No. 551PR118 ..... $3500.00

QX2 Convection System with Board Holder ***(B & C)***
No. 551PR115 ..... $3800.00

LEASING AVAILABLE!

Call for a demo in your area!

ACCESSORIES

C. Board Holder Only
No. 551AC088 ..... $600.00

D. Preheater Only
No. 551AC099 ..... $1125.00

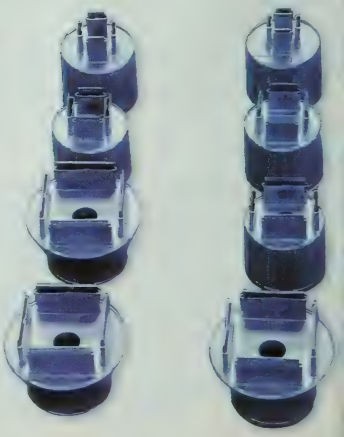
E. Controller Only
No. 551AC001 ..... $262.50

F. Board Holder/Preheater Kit Only
No. 551AC077 ..... $1500.00

Focused Convection Nozzles

Nozzle, Quad, 11mm x 11mm (for PLCC 20)
No. 551AC110 ..... $118.00
Nozzle, Quad, 13mm x 13mm (for PLCC 28)
No. 551AC113 ..... $118.00
Nozzle, Quad, 17mm x 17mm (for QFP 44)
No. 551TI0017 ..... $118.00
Nozzle, Quad, 18mm x 18mm (for QFP 80)
No. 551AC118 ..... $118.00
Nozzle, Quad, 19mm x 19mm (for PLCC 44)
No. 551AC119 ..... $118.00
Nozzle, Quad, 22mm x 22mm (for PLCC 52)
No. 551TI0022 ..... $118.00
Nozzle, Quad, 27mm x 27mm (for PLCC68)
No. 551AC027 ..... $118.00
Nozzle, Quad, 28mm x 28mm (for BQFP 132)
No. 551TI0023 ..... $118.00

Nozzle, Quad, 32mm x 32mm (for PLCC 84, QFP 208)
No. 551AC132 ..... $118.00
Nozzle, Quad, 33mm x 33mm (for QFP 120/128/144/160)
No. 551AC133 ..... $118.00
Nozzle, Quad, 19mm x 25mm (for QFP 100)
No. 551AC925 ..... $118.00
Nozzle, Dual, 11mm x 13mm (for SOL 20)
No. 551TI1113 ..... $118.00
Nozzle, Dual, 11mm x 16mm (for SOL 28)
No. 551AC116 ..... $118.00
Nozzle, Dual, 14mm x 20mm (for TSOP 24-28/40-44)
No. 551TI2400 ..... $118.00
Nozzle, Dual, 21mm x 9mm (for TSOP 28-32)
No. 551TI2109 ..... $118.00
Nozzle, Dual, 21mm x 13mm (for TSOP 48)
No. 551TI2113 ..... $118.00



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Please call for a demo in your area!

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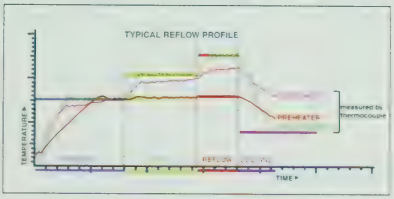
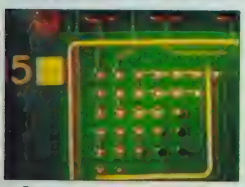
LEASING AVAILABLE!



A wide variety of Micro-Stencils is available to fit each part exactly

Solder paste inspection up to 100X



Component placement using dual image overlay

Complete BGA and CSP rework on one platform.

"Time is money," is a true, if well-worn, statement. Fixed board technology speeds the flow of rework processing. Patented Micro-Oven reflow with 4 time/temperature zones. By paralleling the original board creation, you achieve uniform solder paste application, heat-control, solder reflow and a final quality assured product.

Step 1: Automatic Component Removal:
Improved performance of the underboard pre-heater shortens time required to bring the board to reflow temperature. Nothing is sacrificed in terms of temperature accuracy of programmability.

Step 2: Board Clean-up:
The swing-up head removes the only obstacle for quick on-machine solder pad clean-up. A Metcal soldering system is included with every machine. Built-in halogen lamps brightly illuminate your work area to remove shadows and blind-spots.

Step 3: Single Component Solder Paste Printing or Flux Transfer:
Precision optical stencil alignment is accomplished in moments; no more squinting and hoping for a good print. Simple stencil co-planarity adjustment guarantees a good print first time, every time. The swing-up head provides spacious access to both board and stencil for the pasting operation.

Step 4: Placement and Reflow:
Field-proven optical alignment satisfies the requirements of a wide range of components form QFP's to flip-chip and everything in between. Windows™ -based interactive oven profiling software makes duplicating the original reflow profile simple. Profiles are transferable and repeatable between systems. Micro Oven technology assures even temperatures across the chip assuring simultaneous reflow everywhere on the chip. Profiles are transferable and repeatable between systems. Over 20 different nozzles available for CSP and BGA rework.

Patented Micro Oven duplicates original oven profile

No. 551PR105 (BGA-3500) **$38850.00**

TECHNI-TOOL
Fax: 1-800-854-8665

Please call for a demo in your area!

METCAL

Metcal soldering and desoldering stations use a patented heating technology that provides accurate heat and rapid thermal recovery with high mass boards. Heat is delivered to the tip through a pencil-like, ergonomic handpiece with minimal tip-to-grip distance. The MX Series offers SMT soldering and rework. A Metcal tip cartridge combines heating and sensing capabilities into a self-regulating cartridge, providing the user with high soldering throughout at low temperatures.

Metcal's MX Series Systems employ the patented SmartHeat® technology in delivering heat to the soldering or rework tip. The MX powers a wide variety of tips, providing for removal or attachment of the full range of SMT components, including chips, SOT, SOIC SOJ, PLCC and QFP. The system is available in a single handpiece configuration (MX-500S) or a dual system which includes the TALON tweezer handpiece (MX-500TS).

MX-500TS-11

MX-500TS-11 TALON/Soldering/SMT Rework System
Includes: Two port switchable power supply with power cord, two handpieces with cords, two workstands, two sponges, two cartridge removal pads.
Tip cartridges sold separately.

No. 551S0014 110 VAC **$1000.00**
No. 551S0521 220/240 VAC **$1000.00**

MX-500S-11

MX-500S-11 Soldering/SMT Rework System with Expansion Port
Includes: Two port, switchable power supply with power cord; handpiece with cord; workstand, sponge and cartridge removal pad. *Tip cartridges sold separately.*
No. 551S0010 ..... **$670.00**

MX-500DS-11

MX-500DS-11 Soldering/SMT Rework/Desoldering System
Includes: Two port, switchable power supply with power cord; desoldering handpiece; desoldering cord; ESD air hose with fitting; two workstands; handpiece with cord; two sponges; two cartridge removal pads; cleaning brush; tube cleaning brush; chamber liner and filter pack; desoldering tip cleaner. ***Four-Year Station Warranty.*** *Tip cartridges sold separately.*

No. 551S0012 110 VAC **$1050.00**
No. 551PR511 220/240 VAC **$1050.00**
(Desoldering Handpiece Uses STDC-Tip Cartridges Only!)

Accessories and Replacement Parts

No. 551PR198	(MX-TALON)	Tweezer Handpiece/Cord	**$275.00**
No. 551S0022	(MX-RM3E)	Handpiece/Cord	**$87.55**
No. 551S0024	(AC-CP2)	Cartridge Removal Pad (2)	**$6.20**
No. 551AC641	(MX-DSI)	Pistol Desolder Handpiece	**$288.00**
No. 551AC880	(MX-RM8E)	Desoldering Cord, ESD	**$98.40**
No. 551AC554	(MX-DAH4)	ESD Air Hose And Fitting	**$24.90**
No. 551S0028	(MX-DCF1)	MX Filter Pak	**$14.55**
No. 551AC010	(MX-500P-11)	Power Supply	**$575.00**
No. 551S0003	(MX-WS5)	Talon Workstand	**$51.00**
No. 551S0020	(MX-WS4)	Workstand	**$51.00**
No. 551AC026	(AC-YS3)	Sponge (WS4/WS5) 50/Pk.	**$38.65**

MX-TALON-01
TALON Upgrade Kit without Switchbox
Includes: handpiece with cord, TALON workstand, sponge, cartridge removal pad.
No. 551S0016 *(Not Shown)*..... **$330.00**

Accessories & Kits

Robotic Cable - 183CM
No. 551PR151 ..... **$78.75**

Long Reach Soldering/Rework Handpiece & Cord
No. 551AC006 ..... **$125.70**

Talon Handpiece and Cord
No. 551PR198 ..... **$275.00**

MX Maintenance Kit
No. 551PR553 ..... **$32.50**

Two Port Switchable Power Supply
No. 551AC010 ..... **$575.00**

Talon Handpiece only & Cord
No. 551PR198 ..... **$275.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

SP200 Soldering System

The SP200 is an ideal choice for both large and small companies. You can put an SP200 on the benches of through-hole soldering and surface mount touch-up benches, and a Metcal MX500 Surface Mount Rework System on the benches of your SMT rework operators. The SP200 System includes: Power Supply; Handpiece with cord; Workstand with sponge; Cartridge removal pad. *(Tip cartridges sold separately.)*

No. 551SO032 ..... $310.00

SP440 Self-Contained Desoldering System

With 50 Watts of power, the SP440 is ideal for heavy load desoldering of components on heavy ground plane and multilayer PCBs. The whisper-quiet, self-contained vacuum pump delivers a powerful vacuum, clearing through-holes quickly and completely. Because the vacuum system is built into the unit, the SP440 is portable and ideal for areas lacking shop air. The lightweight, ergonomic pencil grip desolder tool is designed to maximize operator control and comfort. The cable and vacuum tubing are burn proof. And the solder collection chamber is designed for easy cleaning. The SP440 Self-contained Desoldering System includes: Base unit; Workstand; Desolder handpiece; Filter pack. *(Tip cartridges sold separately)*

No. 551SO011 . $690.00

Please call for a demo in your area!

SP Accessories and Replacement Parts

No. 551AC818	(SP-HC1) Handpiece and Cord	**$61.80**
No. 551PR828	(SP-WSK1) Workstand with Sponge	**$43.30**
No. 551SO024	(AC-CP2) Cartridge Removal Pad	**$6.20**
No. 551AC026	(AC-YS3) Sponge for WSK1/2 Pk. 50	**$38.65**
No. 551PR554	(AC-TSTAND) Tip Stand	**$40.00**
No. 551AC285	(AC-TCASE) STTC/SSC Tip Case	**$40.00**
No. 551AC0100	Soft Tip Cleaning Brush (6)	**$49.45**
No. 551AC200	Filter Kit- (5) In-line Filters; (1) Brush	**$35.00**
No. 551AC995	Filters (12) Fume; (24) Paper Collection	**$17.00**

SSC Tip Cartridges for SP200

For maximum performance, pick a tip geometry which will maximize contact with the connection. A flat, blunt tip will transfer more heat than a fine, pointed one. Choosing the largest tip possible will improve performance (enabling you to get more heat at lower temperatures), and enhance tip life. Each Metcal tip cartridge is designed for high power delivery, so you can often solder 100°F or more lower than with a conventional iron. For most applications, a 600 Series tip cartridge will provide enough power. Switch to a 700 Series only where absolutely necessary; for example, when working with heavy ground planes. When working with no-cleans or thermally sensitive applications, Metcal's 500 Series tip cartridges are an excellent choice.

Tip	TT No.	Temp.	Tip Size	PRICE
90° Chisel	551TI315	500°F	1/8"	$17.50
	551TI316	600°F		$17.50
	551TI147	700°F		$17.50
30° Chisel	551TI356	500°F	3/32"	$17.50
	551TI136	600°F		$17.50
	551TI156	700°F		$17.50
30° Chisel	551TI375	500°F	1/16"	$17.50
	551TI138	600°F		$17.50
	551TI158	700°F		$17.50
30° Chisel	551TI358	500°F	3/64"	$17.50
	551TI140	600°F		$17.50
	551TI160	700°F		$17.50
30° Chisel	551TI255	500°F	1/32"	$20.55
	551TI256	600°F		$20.55
	551TI152	700°F		$20.55
Drag Mini 60°	551TI567	500°F	1/8"	$33.00
	551TI667	600°F		$33.00
	551TI767	700°F		$33.00
Sharp Conical	551TI051	500°F	1/32"	$20.55
	551TI601	600°F		$20.55
	551TI701	700°F		$20.55
Long Chisel	551TI546	500°F	3/32"	$17.50
	551TI646	600°F		$17.50
	551TI746	700°F		$17.50
Conical Sharp	551TI252	500°F	1/64"	$20.55
	551TI130	600°F		$20.55
	551TI150	700°F		$20.55
Sharp 30°	551TI265	500°F	1/64"	$20.55
	551TI134	600°F		$20.55
	551TI154	700°F		$20.55
Conical Sharp	551TI454	500°F	1/128"	$20.55
	551TI144	600°F		$20.55
	551TI162	700°F		$20.55
Multi-Lead Speed Solder	551TI359	500°F	1/8"	$33.00
	551TI396	600°F		$33.00
	551TI739	700°F		$33.00
Drag Mini 45°	551TI561	500°F	.18"	$33.00
	551TI661	600°F		$33.00
	551TI761	700°F		$33.00
	551TI602	600°F	0.025 x	$30.85
	551TI702	700°F	0.055	$30.85
	551TI603	600°F	0.030 x	$30.85
	551TI703	700°F	0.060	$30.85
	551TI604	600°F	0.040 x	$30.85
	551TI714	700°F	0.070	$30.85
	551TI605	600°F	0.050 x	$30.85
	551TI705	700°F	0.080	$30.85
	551TI606	600°F	0.060 x	$30.85
	551TI706	700°F	0.090	$30.85
	551TI607	600°F	0.095 x	$30.85
	551TI707	700°F	0.125	$30.85

NOTE. [illegible] ature range or the 700-Series for the 700° temperature ran[illegible]

Maximum Temperature Range Tips:
500 Series ≤ 575°F • 600 Series ≤ 675°F • 800 Series ≤ 775°F

STTC Tip Cartridges for MX Systems

	TT No.	Series	Tip Size Inch	PRICE
60° Chisel	551TI452	500°F	1/16"	$22.60
	551TI0042	600°F	x	$22.60
	551TI122	700°F	0.625"	$22.60
Conical	551TI512	500°F	1/16"	$22.60
	551TI1200	600°F	x	$22.60
	551TI212	700°F	0.185"	$22.60
Conical Sharp	551TI520	500°F	1/16"	$22.60
	551TI002	600°F	x	$22.60
	551TI0012	700°F	0.478"	$22.60
30° Bevel	551TI535	500°F	1/16"	$22.60
	551TI035	600°F	x	$22.60
	551TI531	700°F	0.390"	$22.60
Conical Sharp	551TI0501	500°F	1/32"	$22.60
	551TI001	600°F	x	$22.60
	551S0101	700°F	0.530"	$22.60
Conical Sharp	551TI075	500°F	1/32"	$22.60
	551TI007	600°F	x	$22.60
	551TI017	700°F	0.660"	$22.60
30° Bevel	551TI524	500°F	1/32"	$22.60
	551TI024	600°F	x	$22.60
	551TI0124	700°F	0.360"	$22.60
60° Bevel	551TI547	500°F	1/32"	$22.60
	551TI470	600°F	x	$22.60
	551TI129	700°F	0.560"	$22.60
Conical Sharp	551TI543	500°F	3/128"	$22.60
	551TI043	600°F	x	$22.60
	551TI124	700°F	0.800"	$22.60
Conical Sharp	551TI650	500°F	1/64"	$22.60
	551TI006	600°F	x	$22.60
	551TI0106	700°F	0.535"	$22.60
60° Chisel	551TI514	500°F	1/16"	$22.60
	551TI014	600°F	x	$22.60
	551TI041	700°F	0.185"	$22.60
Chisel (Bent 30°)	551TI540	500°F	3/128"	$22.60
	551TI098	600°F	x	$22.60
	551TI120	700°F	0.625"	$22.60
Chisel (Bent 30°)	551TI598	500°F	1/16"	$22.60
	551TI0098	600°F	x	$22.60
	551TI135	700°F	0.385"	$22.60
Chisel (Bent 30°)	551TI599	500°F	3/64"	$22.60
	551TI099	600°F	x	$22.60
	551TI199	700°F	0.465"	$22.60
Chisel (Bent 30°)	551TI541	500°F	3/64"	$22.60
	551TI100	600°F	x	$22.60
	551TI141	700°F	0.860"	$22.60
Sharp (Bent 30°)	551TI544	500°F	1/64"	$22.60
	551TI102	600°F	x	$22.60
	551TI126	700°F	0.570"	$22.60

TATC Tip Cartridges for MX Talon Systems

TT No.		Series	Tip Size Inch	PRICE
551TI034	Fine Point	500°F	0.03" to	$103.00
551TI036		600°F	0.37"	$103.00
551TI502	Blades 0.25"	500°F	0.00" to	$103.00
551TI0036		600°F	0.36"	$103.00
551TI503	Blades 0.62"	500°F	0.06" to	$103.00
551TI040		600°F	0.42"	$103.00
551TI504	Blades 0.81"	500°F	0.10" to	$103.00
551TI038		600°F	0.47"	$103.00
551TI505	TSOP 32	500°F	0.00" to	$103.00
551TI005		600°F	0.78"	$103.00
551TI506	Blades 1.10"	500°F	0.00" to	$123.60
551TI0606		600°F	0.66"	$123.60

STTC Tip Cartridges for MX Systems

	TT No.	Series	Tip Size Inch	PRICE
Extra Large Chisel	551TI517	500°F	1/3"	$22.60
	551TI617	600°F	x	$22.60
	551TI106	700°F	.300"	$22.60
30° Chisel	551TI536	500°F	3/32"	$22.60
	551TI092	600°F	x	$22.60
	551TI114	700°F	0.390"	$22.60
90° Chisel	551TI513	500°F	1/8"	$22.60
	551TI613	600°F	x	$22.60
	551TI113	700°F	.190"	$22.60
Conical Sharp	551TI0032	600°F	1/16" x .390"	$25.70
	551TI133	700°F		$25.70
90° Chisel	551TI0030	600°F	1/8" x .340"	$25.70
	551TI103	700°F		$25.70
30° Chisel	551TI537	500°F	1/16"	$22.60
	551TI094	600°F	x	$22.60
	551TI116	700°F	.390"	$22.60
30° Chisel	551TI538	500°F	3/64"	$22.60
	551TI096	600°F	x	$22.60
	551TI118	700°F	.390"	$22.60
30° Chisel	551TI525	500°F	1/32"	$22.60
	551TI090	600°F	x	$22.60
	551TI110	700°F	.360"	$22.60
Conical Sharp	551TI522	500°F	1/64"	$22.60
	551TI088	600°F	x	$22.60
	551TI108	700°F	.330"	$22.60
30° Bevel	551TI515	500°F	3/64" x .170"	$25.70
	551TI115	700°F		$25.70
Sharp (Bent 30°)	551TI526	500°F	1/64"	$22.60
	551TI026	600°F	x	$22.60
	551TI112	700°F	.310"	$22.60
60° Bevel	551TI545	500°F	1/128"	$22.60
	551TI104	600°F	x	$22.60
	551TI128	700°F	.580"	$22.60

STDC - Tip Cartridges for MX Desoldering Systems

TT No.	Series	Inside Dia.	Outside Dia.	Long Reach	PRICE
551TI200	600°F	0.025"	0.055"	No	$37.65
551TI076	700°F	0.025"	0.055"	No	$37.65
551TI802	800°F	0.025"	0.055"	No	$55.65
551TI201	600°F	0.030"	0.066"	No	$37.65
551TI078	700°F	0.030"	0.066"	No	$37.65
551TI084	800°F	0.030"	0.066"	No	$55.65
551TI307	700°F	0.030"	0.066"	Yes	$41.75
551TI803	800°F	0.030"	0.066"	Yes	$61.00
551TI202	600°F	0.040"	0.070"	No	$37.65
551TI080	700°F	0.040"	0.070"	No	$37.65
551TI086	800°F	0.040"	0.070"	No	$55.65
551TI774	700°F	0.040"	0.070"	Yes	$41.75
551TI804	800°F	0.040"	0.070"	Yes	$61.00
551TI203	600°F	0.050"	0.080"	No	$37.65
551TI082	700°F	0.050"	0.080"	No	$37.65
551TI087	800°F	0.050"	0.080"	No	$55.65
551TI507	700°F	0.060"	0.080"	Yes	$41.75
551TI805	800°F	0.060"	0.080"	Yes	$61.00
551TI204	600°F	0.060"	0.090"	No	$37.65
551TI061	700°F	0.060"	0.090"	No	$37.65
551TI806	800°F	0.060"	0.090"	No	$55.65
551TI205	600°F	0.095"	0.125"	No	$37.65
551TI071	700°F	0.095"	0.125"	No	$37.65

SMTC - Slot Cartridges for MX Systems

Slot

SMD Components	TT No.	Series	W x L	PRICE
SOP-28	551TI139	700°F	.420 x .720	$51.50
SOP-40	551TI1134	700°F	.510 x 1.000	$92.00
SOP-44	551TI318	700°F	.565 x 1.070	$92.00
TSOP-28	551TI095	600°F	.505 x .320	$51.50
TSOP-40	551TI0154	600°F	.760 x .400	$92.00
TSOP-56	551TI0062	600°F	.760 x .526	$92.00
Chip .0402, .0603	551TI0096	600°F	.070 x .040	$36.50
	551TI196	700°F		$36.50
.0402, .0603 .0805 Angle	551TI588	500°F	.080 x .050	$36.50
	551TI0088	600°F		$36.50
0805	551TI501	500°F	.090 x .050	$36.50
	551TI042	600°F		$36.50
	551TI101	700°F		$36.50
1206, 1210	551TI501	500°F	.140 x .060	$36.50
	551TI044	600°F		$36.50
	551TI0102	700°F		$36.50
1808 1812	551TI003	600°F	.190 x .080	$36.50
	551TI301	700°F		$36.50
Case A SOPM-3224	551TO533	500°F	.135 x .080	$36.50
	551TI0035	600°F		$36.50
Case B SOPM-3528	551TI532	500°F	.150 x .095	$36.50
	551TI032	600°F		$36.50
Inductor Case B	551TI360	600°F	.190 x .110	$36.50
Case C SOPM-6032	551TI033	600°F	.250 x .095	$36.50
Case D SOPM-7243	551TI0034	600°F	.300 x .100	$36.50
SOT-23	551TI550	500°F	.068 x .100	$36.50
	505TI046	600°F		$36.50
SOT-89	551TI085	500°F	.110 x .250	$36.50
	551TI008	600°F		$36.50
	551TI810	700°F		$36.50

Accessories & Kits

Robotic Cable - 183CM
No. 551PR151 ..... **$78.75**

Long Reach Soldering/Rework Handpiece & Cord
No. 551AC006 ..... **$125.70**

Talon Handpiece and Cord
No. 551PR198 ..... **$275.00**

MX Maintenance Kit
No. 551PR553 ..... **$32.50**

BenchGuard® Surface Protector

New!

Protect your work surfaces with BenchGuards highly absorbent upper surfaces that contain spills and a tough polycoated base. Absorbs up to 400ml per square meter, and is available in either pre-cut sheets or a roll dispenser.

50m long x 49cm wide. 164 ft.
Roll Dispenser 19 5/16"W x 164'L
No. 174PR508 ..... **$107.00**
Extra Absorbent Dispenser 19 5/16" sheets
No. 174PR509 ..... **$144.40**
No. 174PR510 Wallet **$61.50**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

SMTC - Tunnel Cartridges for MX Systems

SMD Component	TT No.	Series	W	x W	x L	x D	PRICE
MNR32	551TI1149	700°	.095	.130	.110	.062	$40.50
DPAK	551TI0047	700°	.335	.335	.250	.200	$51.50
SO-8	551TI0107	600°	.320	.380	.750	.240	$51.50
	551TI1107	700°	.320	.380	.750	.240	$51.50
SO-16	551T0406	600°	.330	.330	.475	.230	$50.50
SO-8	551TI0068	600°	.335	.335	.665	.250	$51.50
SOIC-8	551TI004	600°	.200	.200	.170	.90	$41.75
	551TI0104	700°	.200	.200	.170	.90	$41.75
SOIC-14,-16	551TI048	600°	.200	.200	.400	.090	$41.75
	551TI0016	700°	.200	.200	.400	.090	$41.75
SOIC-14	551TI0142	600°	.204	.204	.350	.100	$41.75
	551TI1142	700°	.204	.204	.350	.100	$41.75
SOIC-16 (large)	551TI1124	700°	.320	.320	.470	.270	$41.75
SOIC-20	551TI050	600°	.375	.375	.520	.125	$41.75
	551TI1010	700°	.375	.375	.520	.125	$41.75
SOIC-24	551TI009	600°	.375	.375	.620	.125	$41.75
	551TI109	700°	.375	.375	.620	.125	$41.75
SOIC-28,SOL-34	551TI1007	600°	.375	.375	.720	.125	$41.75
	551TI107	700°	.375	.375	.720	.125	$41.75
SOIC-32	551TI1420	600°	.520	.520	.805	.170	$51.50
SOJ-40,SOM-32	551TI400	600°	.410	.450	1.020	.075	$51.50
SOJ-42	551TI0148	600°	.410	.450	1.070	.125	$92.00
	551TI1148	700°	.410	.450	1.070	.125	$92.00
	551TI139	700°	.420	.420	.720	.125	$51.50
SOP-40	551TI1134	700°	.460	.510	1.000	.125	$92.00
SOP-44	551TI318	700°	.510	.565	1.070	.105	$92.00
TSOP-28	551TI095	600°	.470	.505	.320	.065	$51.50
TSOP-32	551TI0084	700°	.762	.730	.318	.044	$51.50
TSOP-40	551TI0154	600°	.730	.760	.400	.120	$92.00
	551TI1154	700°	.730	.760	.400	.120	$92.00

SMD Component	TT No.	Series	W x L x D			PRICE
PLCC-28 Socket	551TI012	600°	.445	.445	.150	$65.50
PLCC-32 Socket	551TI1109	700°	.456	.556	.120	$65.50
PLCC-44	551TI801	600°	.660	.660	.100	$65.50
	551TI1118	700°	.660	.660	.100	$65.50
PLCC-52	551TI168	700°	.750	.750	.150	$65.50

SMD Component	TT No.	Series	W	x W	x L	x L	x D	PRICE
PLCC-18	551TI011	600°	.300	.330	.500	.530	.100	$65.50
	551TI164	700°	.300	.330	.500	.530	.100	$65.50
PLCC-20	551TI012	600°	.360	.400	.360	.400	.100	$65.50
	551TI166	700°	.360	.400	.360	.400	.100	$65.50
PLCC-28	551TI0103	600°	.370	.410	.570	.610	.100	$65.50
	551TI013	700°	.370	.410	.570	.610	.100	$65.50
PLCC-32	551TI016	600°	.450	.500	.550	.600	.100	$65.50
	551TI0116	700°	.450	.500	.550	.600	.100	$65.50
PLCC-28	551TI0013	600°	.455	.500	.455	.500	.100	$65.50
	551TI0113	700°	.455	.500	.455	.500	.100	$65.50
PLCC-44	551TI168	700°	.660	.700	.660	.700	.100	$65.50
PLCC-52	551TI170	700°	.760	.800	.760	.800	.100	$97.00
PLCC-68	551TI801	600°	.960	.995	.960	.995	.140	$65.50
PLCC-84	551TI0119	700°	1.160	1.195	1.160	1.175	.140	$97.00
SQFP-48(EIAJ)	551TI0121	600°	.330	.330	.330	.330	.100	$65.50
	551TI1121	700°	.330	.330	.330	.330	.100	$65.50
SQFP-64(EIAJ)	551TI0120	600°	.440	.440	.440	.440	.100	$65.50
	551TI1120	700°	.440	.440	.440	.440	.100	$65.50
TQFP-44	551TI0159	600°	.440	.480	.480	.520	.110	$65.50
	551TI159	700°	.440	.480	.480	.520	.110	$65.50
QFP-48	551TI0115	600°	.550	.550	.550	.550	.130	$65.50
	551TI1115	700°	.550	.550	.550	.550	.130	$65.50
VQFP-100(EIAJ)	551TI801	600°	.570	.610	.570	.610	.080	$65.50
	551TI1118	700°	.570	.610	.570	.610	.080	$65.50
QFP-128(3.2mmfp)	551TI1133	700°	.620	.620	.860	.860	.130	$97.00
QFP-44	551TI021	600°	.635	.635	.635	.635	.130	$65.50
	551TI121	700°	.635	.635	.635	.635	.130	$65.50
QFP-100	551TI0043	600°	.650	.650	.885	.885	.130	$97.00
	551TI064	700°	.650	.650	.885	.885	.130	$97.00
QFP-64,-80	551TI0015	600°	.675	.675	.910	.910	.130	$97.00
	551TI015	700°	.675	.675	.910	.910	.130	$97.00
QFP-100	551TI045	600°	.805	.805	.805	.805	.190	$97.00
	551TI145	700°	.805	.805	.805	.805	.190	$97.00
QFP-144	551TI1122	700°	.805	.840	.805	.840	.075	$97.00
QFP-132	551TI0086	600°	.985	1.020	.985	1.020	.125	$97.00
	551TI186	700°	.985	1.020	.985	1.020	.125	$97.00
QFP-208 Dual	551TI181	700°	1.125	1.170	1.125	1.170	.114	$139.00

Fume Extraction

BVX-100 Fume Extraction System

New!

The BVX-100 is a bench top, fume extraction system designed for portability and performance. No installation required, small footprint, low operating noise and superior airflow make this the ideal product for your fume extraction needs. Simply place the system on your bench top and turn it on. Harmful fumes and vapors are immediately removed from your operator's breathing zone. The base of the BVX-100 is a 300mm plenum that can also transform into an arm extraction system for additional range. Two filtration levels are offered. For clean room quality filtration, a 99.997% efficient HEPA filter is available. For light duty organic solvent and adhesive applications, a deep bed carbon filter is available. **Specs:** Static Pressure: 1250 Pa (5 in H20); Flow Rates: 85 m3/hr (50 CFM) w/HEPA filter; Noise Level: <55 dbA; Size: 11.5"H x 12"W x 9"D; Voltage: 90 - 264 VAC; Frequency: 47 - 440 Hz; Power: 85 Watts. **(USA)**

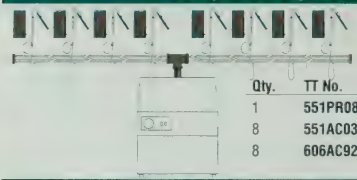
No. 551PR102 Pre-HEPA-Gas, 100-240VAC **$670.00**
No. 551PR103 Pre-Gas, 100-240VAC **$670.00**
No. 551AC222 Deep Bed Gas **$77.25**
No. 551AC223 Main (Combined HEPA/Gas) **$77.25**
No. 551AC224 Pre (Packs of 5) **$6.30**
No. 551AC225 Replacement arm-to-plenum **$47.00**
No. 551AC226 Replacement flexible arm **$51.50**
No. 551AC227 Under Bench Mounting Bracket **$78.00**
No. 551AC228 Nozzle, 40mm Diameter **$15.50**

AIRIDUS

TX081 Fume Extraction System

TX products are designed for tip extraction from soldering irons. This economical and effective method of fume removal removes fumes at the source. Specs: Static Pressure: 33 in of H2O; Flow Rate: 24 C.F.M; System Capacity: 5.6mm dia tubes: 1-8 operators; Noise Level: 52dBA; Max duct run: 150'; 21"H x 14.5"W x 14"D. **Analog Tip Extraction System w/ Bag/Gas filter.**
No. 551PR081 ..... $1400.00

Sample Configuration



LEASING AVAILABLE!

Qty.	TT No.	Description
1	551PR081	Analog System
8	551AC032	Tip Extraction Kit
8	606AC929	Metcal MX Iron Adapters (5.6mm)

Selected Systems (others available - call)

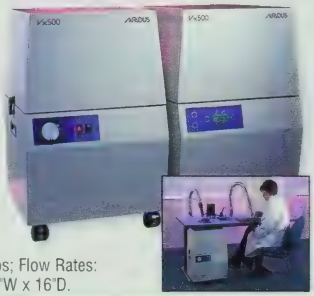
TT No.	Description	Price
551PR818	8-user Analog Tip Extraction System w/Pre/HEPA/Gas Filter	$1450.00
551PR081	8-user Analog Tip Extraction System w/Bag/Gas Filter	$1400.00
551PR1818	8-user Digital Tip Extraction System w/Pre/HEPA/Gas Filter	$2050.00
551PR8080	15-user Analog Tip Extraction System w/Pre/HEPA/Gas Filter	$1895.00
551PR8008	15-user Analog Tip Extraction System w/Bag/Gas Filter	$1900.00
551PR1500	15-user Digital Tip Extraction System w/Pre/HEPA/Gas Filter	$2570.00
551AC032	Tip Extraction Installation Kit	$49.20

Sample Iron Adapter Kits (others available - call)

TT No.	Description	Price
606AC902	Macro Adapter Kit for Weller/Pace IR-70 (stand not incl.)	$38.90
606AC951	Weller Micro Iron Adapter Kit EC-1302A	$38.90
551AC926	Hakko Micro Iron Adapter Kit (900S)	$38.90
606AC927	Hakko 5.6mm Macro Iron Adapter Kit (900M/900L)	$38.90

551AC9278	Hakko 8mm Macro Iron Adapter Kit (900M/900L)	$38.90
606AC929	Metcal STSS/MX/Hakko 907/936/937 Adapter Kit - 5.6mm	$38.90
551AC930	Metcal SP-HC1 (SP200 Base) Iron Adapter Kit - 5.6mm	$38.90

VX501 Series Fume Extraction System



For adhesive application, solder pots or soldering and rework, this fume extraction system allows for less obtrusive extraction. VX units are available with cost-effective analog or complete digital monitoring, with three different filtration options. **Specs:** Static Pressure: 5 in of H2O; Noise Level: 55 dBA; Weight: 80lbs; Flow Rates: 350 CFM Free Blowing; 26"H x 17"W x 16"D.

Selected System Options

Analog w/Pre/HEPA/Gas Filter
No. 551PR501 ..... $1450.00
Analog w/ Bag/Gas Filter
No. 551PR0501 ..... $1400.00
Analog w/ Pre/Gas/Gas Filter
No. 551PR0051 ..... $1450.00
Digital W/ Pre/HEPA/Gas Filter
No. 551PR5010 ..... $2050.00

Selected Arms and Accessories

50mm Stainless Steel Flexi-Arm Kit
No. 551AC508 ..... $205.00

32mm Low-Cost Flexi-Arm Kit
No. 606PR911 ..... $153.50

Arm Extraction Installation Kit (need one for each arm)
No. 551AC789 ..... $102.00

Accessories for SS-50BME Stainless Steel Flexi-Arm

100mm Flat Nozzle for 50mm arms
No. 551AC959 ..... $81.40

200mm Flat Nozzle ESD for 50mm arms
No. 551PR962 ..... $117.45

100mm Pen-Nib: 32mm dia. for 50mm arms
No. 551AC230 ..... $40.20

210mm Pen-Nib: 50mm dia. for 50mm arms
No. 551AC965 ..... $24.75

310mm Pen-Nib; 50mm dia. ESD for 50mm arms
No. 551PR967 ..... $35.05

Clear hood (10"W x 8"D) for 50mm arms
No. 551PR963 ..... $91.70

Round Nozzle for 50mm arms
No. 551AC971 ..... $81.40

Bench Bracket/Clamps for 50mm arms
No. 551PR973 ..... $60.80

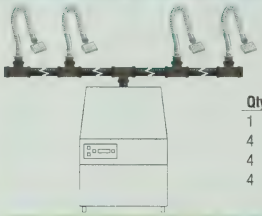
551AC508

606PR911

551PR963

551AC971

Sample Configuration



LEASING AVAILABLE!

Qty.	TT No.	Description
1	551PR501	Digital System
4	551PR962	SS Flexi-Arm
4	551AC605	Flat Nozzle
4	551AC789	Arm Extraction Kit

Plenums

50mm Small Plenum - Clear
No. 551AC850 ..... $141.30

50mm Small Plenum - Black ESD Safe
No. 551AC0085 ..... $175.10

75mm Large Plenum - Clear
No. 551PR075 ..... $165.00

75mm Large Plenum - Black ESD Safe
No. 551PR175 ..... $242.05

Cabinets

HVC Series fume extraction cabinets provide multi-stage filtration via EU3 grade Pre-filters and Chemical filters, with the option of Class 100 Pre/HEPA/Gas filtration for soldering. Rear mounted pump and silencer provides personal protection for the operator, at low noise levels.

LEASING AVAILABLE!

TT No.	Description	Price
606PR601	Medium Cabinet w/Pre/Gas/Gas filters	$2050.00
551PR6011	Medium Cabinet w/Pre/HEPA/Gas filters	$2360.00
606PR006	Large Cabinet w/Pre/Gas/Gas filters	$3085.00
551AC606	Large Cabinet w/Pre/HEPA/Gas filters	$3600.00

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Hakko 939 Soldering Station

This updated station offers you superior thermal recovery, permitting operators to solder at a lower temp, minimizing the possibility of damaging sensitive PCBs and components. Featuring a thinner grip for easier use, the unit incorporates a new type of heating system which combines the tip and the heating element into a single unit. This one-piece design offers superior thermal recovery and features a temp lock card system. Simply insert the card, key in the desired temperature and remove the card. Temperature cannot be changed without reinserting the card. Other features include: One-step convenient front panel temp adj; Temp display in °C/°F; Accurate between 200°C and 480°C. *Meets MIL-STD-2000.* ESD safe. **Specs:** 120VAC/60W. **Station:** Output V: 24V AC; Temp: 200°C-480°C (400°F-899°F) ±1.6°C (3°F). **Iron:** Heating Element: Ceramic Heater 24V AC-50W. (Japan)

No. 821IR029 ..... **$336.95**

Station 939 Replacement Tips

Tip	TT No.	Model No.	Description	PRICE/Ea.
	821TI243	A1243	0.8mm Chisel	**$18.85**
	821TI244	A1244	1.6mm Chisel	**$18.85**
	821TI245	A1245	2.4mm Chisel	**$18.85**
	821TI246	A1246	5.2mm Chisel	**$18.85**
	821TI247	A1247	0.5r mm Conical	**$18.95**
	821TI248	A1248	0.2r mm Conical	**$18.85**
	821TI249	A1249	1.2mm Chisel, 60°	**$19.00**
	821TI250	A1250	.2r Bent Conical, 30°	**$19.00**
	821TI252	A1252	.2r 0.2mm Sharp Cone	**$19.05**
	821TI253	A1253	0.8mm Small Chisel	**$18.85**
	821TI254	A1254	1.2mm Small Chisel	**$18.85**
	821TI255	A1255	0.4mm Small Bevel	**$19.00**
	821TI256	A1256	3.2mm Chisel	**$18.85**
	821TI266	A1266	2.4mm Chisel	**$18.70**
	821TI268	A1268	5mm K-Knife, 45°	**$32.45**
	821TI269	A1269	0.2r mm Bent, 30°	**$22.90**
	821TI270	A1270	1.0mm Bevel, 60°	**$28.05**
	821TI271	A1271	4.5mm Chisel	**$19.80**
	821TI326	A1326	1.2mm Chisel	**$22.95**
	821SO327	A1327	0.8mm Bevel	**$22.95**
	821SO328	A1328	0.2r Bent Conical	**$22.95**

Station 939 Replacement Tips

Tip	TT No.	Model No.	Description	PRICE/Ea.
	821TI329	A1329	2r mm Sharp Conical	**$22.95**
	821TI330	A1330	2.8mm Chisel, 60°	**$22.90**
	821TI113	A1331	Dual Chisel 3.4mm	**$38.70**
	821TI332	A1332	Dual Chisel, 5.9mm	**$38.70**
	821TI333	A1333	SOP 5.1 x 4.3	**$38.70**
	821TI272	A1334	SOP 5.1 x 10.2	**$38.50**
	821TI335	A1335	SOP 9.5mm x 13.3mm	**$38.50**
	821TI337	A1337	Spatula 10.4mm	**$60.00**
	821TI273	A1336	2.3mm R3	**$38.70**
	821TI338	A1338	Spatula 20.8mm	**$66.45**
	821TI339	A1339	PLCC 12.7mm x 12.7mm	**$71.95**
	821TI340	A1340	PLCC 17.8mm x 17.8mm	**$71.85**
	821TI341	A1341	3.2 Chisel	**$24.00**
	821TI347	A1347	PLCC 16.4mm x 22.4mm	**$18.95**
	821TI348	A1348	PLCC 25.5mm x 25.5mm	**$140.10**
	821TI342	A1342	PLCC 10.2mm x 10.2mm	**$71.95**
	821TI345	A1345	PLCC 15.2mm x 12.7mm	**$71.85**
	821SO346	A1346	0.2mm Bent Conical	**$22.80**

Hakko 485 Reflow Soldering System

This compact, high performance soldering system is developed exclusively for soldering and desoldering components, and connectors mounted on PC boards. Solder flow is time and temperature controlled. Soldering and desoldering cycles are automatic and precise, with a built-in locator light to pinpoint the exact position for placing components. You can completely remove solder remaining in through holes with the air unit. **Includes**: body; air unit; Nozzles (1 each): 14/16, 18/20, 28, 42 pin, 18/20, 28, 42 pin air hood; IC tweezers; anti-oxidizer; spatula, lamp (6V-10W); horizontal gauge; positioning board; waste collector; locator light; air hood holder with hose; cable; foot switch. **Specs**: Power Consumption: 850W; Temperature Control: 299°C (570°F); Solder: 22 lbs; Heating Element: 800W; Air Pressure: 2 kg/cm² - 10 kg/cm²; Dimensions: 485 (body): 19.7" x 9.6" x 21.7", 486 (Air Unit): 5.9" x 3.9" x 11.8"; Weight: 485 (body): 77 lbs without solder, 486 air unit): 7.7 lbs. Holds 22 lbs of solder. (Japan)

No. 821SO485 (485-V12) Body **$5900.00**
No. 821SO486 (486) Air Blower Unit **$1372.30**

LEASING AVAILABLE!

Replacement Parts

No. 821TI501 (485-N-01) 14/16 Pin Nozzle **$104.30**
No. 821TI502 (485-N-02) 18/20 Pin Nozzle **$110.20**
No. 821TI503 (485-N-03) 28 Pin Nozzle .. **$110.20**
No. 821TI504 (485-N-04) 42 Pin Nozzle.. **$110.20**
No. 821AC528 (485-28) 14/16 Pin air hood **$102.75**
No. 821AC529 (485-29) 18/20 Pin air hood **$102.75**
No. 821AC530 (485-30) 28 Pin air hood.. **$102.75**
No. 821AC531 (485-31) 42 Pin air hood **$149.90**
No. 821AC026 (485-026) Anti-oxidizer **$2.80**
No. 821AC509 (485-09) Spatula..... **$6.45**
No. 821AC510 (485-10) Lamp (6V-10W) **$10.15**
No. 821AC512 (485-H-V12) Heating Element 400W/120V **$82.40**

HAKKO

LEASING AVAILABLE!

Hakko 850 SMD Rework Station

The wide range of adjustment of air volume and temperature available permits soldering and desoldering of QFP and SOP components. The same nozzle can be used for soldering and desoldering and for shrinking tubing.

Automatic Cooling Mode: Protects the Heating Element and Handle when the Power Switch is turned off. **Specifications:** Power consumption-20W/115V/60Hz; Diaphragm Pump; Capacity - 23 L/min. (max.); Dimensions-7.36"L x 9.64"W x 5.31"D (187 x 245 x 135mm); Weight: 8.81 lb. (4kg.)

Iron Specifications: 260W Hot Air Temperature - 212-788°F (100-420°C). (Use 850-N-3); Length - 7.71 in. (196mm); Wt - .026 lb. (120g). (Japan)

No. 821IR850 850 Station (tips sold separately) **$1053.85**

(220 VAC Available)

Replacement Parts

No. 821MI850 850-H Heating Element for No. 850 ..... **$36.65**

No. 821AC438 FP Pick-Up Wire, Sm/Lg **$11.55**

No. 821PA439 FP Pick-Up Wire, Sm **$4.15**

No. 821PA440 FP Pick-Up Wire, Lg **$4.15**

Please call for a demo in your area!

Tip	TT No.	Suggested Application	Tip Size A x B	PRICE/ Each
	821TI147	SIP	25.5mm x 1mm	$246.30
	821TI145	SIP	52mm x 1mm	$246.30
	821TI853	QFP	15.2mm x 15.2mm	$169.25
	821TI854	QFP	19.2mm x 19.2mm	$169.25
	821TI855	QFP	15.2mm x 21.2mm	$169.25
	821TI856	QFP	28.2mm x 28.2mm	$169.25
	821TI1203	QFP	35mm x 35mm	$226.15
	821TI1262	QFP	12.2mm x 12.2mm	$221.50
	821TI1263	QFP	27.9mm x 39.9mm	$247.90
QFP	821TI1264	QFP	40.4mm x 40.4mm	$247.90
	821TI1265	QFP	32.2mm x 32.2mm	$190.80
	821TI146	QFP	42.5mm x 42.5mm	$246.30
	821TI858	SOP	4.8mm x 10mm	$169.25
	821TI8509	SOP	5.7mm x 15mm	$169.25
	821TI8501	SOP	7.2mm x 16mm	$169.25
	821TI861	SOP	7.2mm x 19mm	$169.25
	821TI1258	SOP	10mm x 8mm	$226.15
	821TI267	SOP	21mm x 11.7mm	$210.35
	821TI1259	SOP	29mm x 13.5mm	$210.35
SOP	821TI1260	SOP	19mm x 8.7mm	$190.80

Tip	TT No.	Suggested Application	Tip Size A x B	PRICE/ Each
	821TI124	Single	2.5mm (ID)	$29.25
	821TI857	Single	4.4mm (ID)	$33.85
	821TI144	Dual Single	2.5mm x 7.2mm (ID)	$246.30
	821TI325	Dual Single	0.15mm (ID)	$239.65
	821MI1142	Bent Single	1.5mm x 3mm x 45°	$72.85
	821TI1182	BQFP	24mm x 24mm	$270.35
	821TI183	SOJ	15mm x 8mm	$270.35
	821TI214	SOJ	27mm x 12mm	$246.30
	821TI1185	TSOL	13mm x 10mm	$246.30
	821TI1186	TSOL	18mm x 10mm	$246.30
	821TI1187	TSOL	8mm x 18.5mm	$270.35
	821SO012	PLCC (44)	18.5mm x 18.5mm	$216.95
	821TI513	PLCC (52)	21mm x 21mm	$216.95
	821SO850	PLCC (68)	26mm x 26mm	$216.95
	821SO851	PLCC (84)	31mm x 31mm	$216.95
	821TI1139	PLCC (18)	9mm x 14mm	$216.95
	821TI1140	PLCC (28)	11.5mm x 11.5mm	$216.95
PLCC	821TI188	PLCC (20)	10mm x 10mm	$246.30
	821TI189	PLCC (100)	36.5mm x 36.5mm	$246.30

Hakko Rework System

Hakko 851-2 SMD Rework Station

Use this station for shrinking tubing or soldering and desoldering small SMC components. ESD protected, it also features adjustable temperature control from 212-1004°F (100-540°C) and an air volume selector switch with an ultra-light setting. **Specifications:** Station: Diaphragm-type pump; Six liters/min. (Max.) air volume; 2A Fuse; 3.98"L x 6.57"W x 7.16"D external dimensions. Soldering Iron: 80W power consumption; Ceramic heating element. Comes with three nozzles. (Japan)

No. 821SO051 110V Station **$635.40**

No. 821SO116 220V **$710.00**

Accessories/Replacement Tips

Nozzles

No. 821PR147 0.04" (1.0mm) Nozzle **$23.10**

No. 821TI105 0.06" (1.5mm) Nozzle **$20.00**

No. 821TI106 0.08" (2.0mm) Nozzle **$20.00**

No. 821TI107 0.12" (3.0mm) Nozzle **$20.00**

80W Heating Element

No. 821SO108 ..... **$21.55**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

852 SMD Rework Station

This ESD design rework station has a built-in vacuum pickup for rework. Features a Digital Display of air temperature with closed control loop. Digital timer displays in automatic mode. Airflow controls and air flow meter added. Includes manual or auto mode selection. **Specifications**: Station: Power Consumption: 30W; Capacity: 7~20 Liters/min; Timer: 15~999 Sec. (Max.); Iron: Power Consumption: 270W; Air Temperature at Sensor: 100°C (212°F) 450°C (842°F); Vacuum pad: 0.2", 0.3". (Japan)

A. SMD Rework
No. 821SO852 ..... **$1299.00**

B. Omivise
No. 821PR139 ..... **$48.95**

C. Fixture
No. 821PR393 ..... **$599.00**

Nozzle Tray (Not Shown)
No. 821PR391 ..... **$59.00**

LEASING AVAILABLE!

Tip	TT No.	Suggested Application	Tip Size A x B	PRICE/ Each
QFP	821TI1125	QFP	10 x 10	$169.25
	821TI1126	QFP	14 x 14	$169.25
	821TI1127	QFP	17.5 x 17.5	$169.25
	821TI1128	QFP	14 x 20	$169.25
	821TI1129	QFP	28 x 28	$169.25
	821TI1203	QFP	35 x 35	$226.15
	821TI215	QFP	42.5 x 42.5	$246.30
	821TI261	QFP	20 x 20	$190.80
	821TI1262	QFP	12 x 12	$221.50
	821TI1263	QFP	28 x 40	$247.90
	821TI1264	QFP	40 x 40	$247.90
	821TI1265	QFP	32 x 32	$190.80
	821TI267	SOP	11.7 x 21	$210.35
	821TI1258	SOP	7.6 x 12.7	$226.15
	821TI1259	SOP	13 x 28	$210.35
	821TI1260	SOP	8.6 x 18	$190.80
Vacuum Function Operative Nozzle				
	821TI124	Single	2.5 (ID)	$29.25
	821TI1142	Bent Single	1.5 x 3 x 45°	$72.85

Tip	TT No.	Suggested Application	Tip Size A x B	PRICE/ Each
	821TI1180	BQFP	17 x 17	$241.15
	821TI181	BQFP	19 x 19	$243.50
	821TI1182	BQFP	24 x 24	$270.35
	821TI184	SOJ	18 x 18	$246.30
	821TI214	SOJ	10 x 26	$246.30
	821TI1185	TSOL	13 x 10	$246.30
	821TI1186	TSOL	18 x 10	$246.30
	821TI1187	TSOL	8 x 18.5	$270.35
PLCC	821TI135	PLCC	17.5 x 17.5	$216.95
	821TI136	PLCC	20 x 20	$216.95
	821TI137	PLCC	25 x 25	$216.95
	821TI138	PLCC	30 x 30	$216.95
	821TI1139	PLCC	12.5 x 7.3	$216.95
	821TI1140	PLCC	11.5 x 11.5	$216.95
	821TI1141	PLCC	11.5 x 14	$216.95
	821TI188	PLCC	9 x 9	$246.30
	821TI1189	PLCC	34 x 34	$246.30

CAUTION: *Be sure* ***NOT*** *to use* ***No. A124*** *Single 2.5mm (0.09") and* ***No. A1142*** *Bent Single 1.5mm x 3mm (0.06" x 0.12") nozzles with Hakko 852. These nozzles do not have space to blow hot air, using them with the 852 may result in danger.*

Hakko 703 Rework System

Two soldering stations in one unit! The digital indicator system works independently in either °C or °F on all three ports. ESD safe. Includes two medium irons and one desoldering tool. The optional 950 Hot Tweez can be used with this unit, including its own self-contained air unit. Can be calibrated to NIST Standards. **Specifications:** Soldering: Output Voltage: 24V; Temp.: 200°C-480°C (392°F-896°F); Temp. Stability: ±1.0°C (1.8°F); Desoldering: Output Voltage: 24V; Vacuum Pressure: 600 mm. Hg.; Suction Flow: 12L/min.; Motor Output: 12W; Temp.: 350°C-450°C (662°F-842°F). ***One-Year Warranty.*** (Japan)
No. 821SO703 (703 ESD) **$799.00**

Options
No. 821SO950 (950ESD) Hot Tweezer **$137.25**
No. 821AC649 (B-1649) Foot Pedal for Desoldering Tool **$76.95**

Hakko 470B-1 Desoldering System

Heavy-duty power and quick thermal recovery permit fast desoldering of multilayer printed circuit boards. Low 24V output helps protect PCBs and other parts. **Specs:** Power Source: 120V-60 Hz.,110W. Output: 24 V AC. Vacuum Pressure: 24 in. Hg. Voltage Leakage: Under 1.2 mV. Ground Resistance: Under 2 W. (Japan)
No. 821SO470 ..... **$597.35**

Hakko 471-2 Shop Air System (Not Shown) Uses Shop Air. Features a male, 1/8" pipe thread on the rear panel for connection to a shop air supply. Requires air filter and air pressure regulator. **Specs:** Power Source: 120V-60 Hz. Power Consumption: 70W. Output Voltage: 24 VAC. Vacuum Pressure: 28 in. Hg (700 mm Hg). Voltage Leakage: Under 1.2 mV. Ground Resistance: Under 2W. (Japan)
No. 821IR471 ..... **$509.45**

Replacement Parts

No. 821PA215	Cleaning pin for heating element	**$4.65**
No. 821MI240	Cleaning pin for 0.8 mm (0.03 in.) nozzle	**$3.40**
No. 821SO1087	Cleaning pin for 1.0 mm (0.04 in.) nozzle	**$3.40**
No. 821AC1088	Cleaning pin for 1.3 mm (0.05 in.) nozzle	**$3.40**
No. 821SO1089	Cleaning pin for 1.6 mm (0.06 in.) nozzle	**$3.40**
No. 821FI302	Cleaning drill for 0.8 mm (0.03 in.) nozzle	**$12.15**
No. 821FI1303	Cleaning drill for 1.0 mm (0.04 in.) nozzle	**$12.15**
No. 821FI304	Cleaning drill for 1.3 mm (0.05 in.) nozzle	**$12.15**
No. 821FI1305	Cleaning drill for 1.6 mm (0.06 in.) nozzle	**$12.15**
No. 821PA128	Filter pipe with front holder & filters	**$10.00**
No. 821MI1009	Ceramic paper filter (Small) set of 10 pcs.	**$5.40**
No. 821MI033	Ceramic paper filter (Large) set of 10 pcs.	**$8.35**
No. 821MI1030	Spring filter set of 10 pcs.	**$10.00**
No. 821PA029	Heating element 24V/50W	**$42.60**
No. 821CH1028	Silicon grease	**$3.40**
No. 821AC042	Cleaning sponge	**$3.10**

Replacement Desoldering Gun 802 for Hakko 470 Plus

No. 821SO1054 ..... **$220.00**

Replacement Tips

No. 821MI005	I.D. 0.03" (0.8 mm) Short; O.D. .071" (1.8mm)	**$13.50**
No. 821MI1003	I.D. 0.04" (1.0 mm) Short; O.D. .079" (2.0mm)	**$13.50**
No. 821TI1004	I.D. 0.03" (0.8 mm); O.D. .091" (2.3mm)	**$13.50**
No. 821SO005	I.D. 0.04" (1.0 mm); O.D. .099" (2.5mm)	**$13.50**
No. 821TI1006	I.D. 0.05" (1.3 mm); O.D. .118" (3.0mm)	**$13.50**
No. 821TI1007	I.D. 0.06" (1.6 mm); O.D. .118" (3.0mm)	**$13.50**
No. 821TI393	I.D. 0.04" (1.0 mm); O.D. .062" (1.6mm)	**$16.15**
No. 821TI394	I.D. 0.04" (1.0 mm); O.D. .090" (2.1mm)	**$13.50**
No. 821TI274	I.D. 0.051" (1.3 mm); O.D. .091" (2.3mm)	**$13.50**
No. 821TI806	I.D. 0.091" (2.3 mm); O.D. .157" (4.0mm)	**$19.35**

Hakko 928 Station

A compact unit, it has two 926 units in one station, making it cost effective and practical in production–using up less available space. Super quick heat up and faster thermal recovery permits quality soldering at lower temps. **Station Specs:** 120W; Output V: AC 24V; Temp.: 200°C (392°F)~480°C (896°F); Temp. Control: ±0.5°C (±0.9°F). **Iron Specs:** Power: AC 24V/50W; Resistance: 300MΩ (400°C, 750°F); Leak V: under 0.6mV; Heating element: ceramic heater. *Meets MIL-SPEC; MIL-STD-2000.*

928 Station with One Med & One Large 900 Micro Iron.
No. 821ST928 ..... **$318.50**

928 Station with One Small Med 900 Micro Iron (Shown)
No. 821ST929 ..... **$318.50**

900 Micro Irons: 24VAC/50W - ESD Version
No. 821IR903 Small Grip **$73.85**
No. 821IR901 Med Grip **$73.85**
No. 821IR009 Large Grip **$81.55**

928 -220V Dual Station with 2-900 med grip irons and tips. (Not CE Approved.)
No. 821SO822 ..... **$400.00**

928 - 220V Dual Station with one each med large irons. (Not CE Approved.)
No. 821SO823 ..... **$400.00**

Heating Element for Small Iron (821IR903)
No. 821AC322 ..... **$16.65**

Heating Element for Medium/Large Iron (821IR901-821IR009)
No. 821SO263 ..... **$16.65**

No. 821AC042 Replacement Sponge **$3.10**

HJ3100 Fume Extraction System - 170 CFM

The Hakko HJ Series is the most efficient and cost-effective fume extraction system available with a proven multi-stage filtering process to remove air contaminant's from large particles to those as small as 0.01 micron. Direct connection of intake ports to tip extractors provides nearly 100% fume extraction right at the source. It's light,18-pound weight makes it ideal for portable workstations or permanent two station setups. The contaminated air is extracted from the workstation and transferred by two flexible ducts for maximum efficiency. (Japan)
No. 821SO310 ..... **$536.95**

HJ3100 Parts & Accessories

ESD Rectangular Hood, 3"H x 8"L.
No. 821SO138 ..... **$9.25**

ESD Round Hood, 6" Dia.
No. 821AC153 ..... **$31.55**

ESD Mini Benchtop Hood, 9"L x 4-1/2"D x 5-1/2"H.
No. 821SO168 ..... **$49.25**

Non-ESD Transparent Hood.
No. 821AC170 ..... **$71.00**

Bracket for Fume Hood.
No. 821SO159 ..... **$27.50**

Flexible ESD Duct, 3" Dia. (other lengths available).
821AC152 - 6' **$27.25**
821AC151 - 10' **$30.30**

Neoprene ESD Duct, 3" Dia. x 6' OAL (other lengths available).
No. 821AC189 ..... **$12.85**

"Y" Piping for Hood Attachment
No. 821SO156 ..... **$10.15**

3.5" Hose Clamp. (2 Pk.)
No. 821AC169 ..... **$4.00**

Bench Clamp with 3" to 2" Reducer.
No. 821AC177 ..... **$45.60**
No. 821AC288 ..... **$33.10**

Hakko 936/937 Soldering Stations

Offers the convenience to allow supervisors to accurately set and monitor station temps. The digital display indicator permits quick, precise temperature monitoring by all personnel. **Features:** Thin iron grip for easier use. Has compatibility with the Hakko 900 series tips and heating elements. The temperature lock card system, the temperature cannot be changed without reinserting the card. Stackable design allows two units in bench space of one unit; Centigrade and Fahrenheit temperature scales. **Specs:** 60W; Output: AC 24V; Heating Element: AC 24V-50W; Temp Range: 200-480°C (392-896°F); Temp. Stability: ±0.5°C (0.9 °F). (Japan)

No. 821ST927 ..... **$292.35**

Irons for 936/937 Soldering Stations

Small
For Micro Soldering
No. 821SO907 $53.35
ESD Version
No. 821IR903.. $73.85
Replacement Element
No. 821AC322 $16.65
Replacement Sponge
No. 821AC042 $3.10

Medium
For Standard Soldering
No. 821IR900.. $52.35
ESD Version
No. 821IR901.. $73.85

Large
For Heavy-Duty Soldering
No. 821IR902.. $60.00
ESD Version
No. 821IR009 $81.55
Replacement Element for Med/Large Irons
No. 821SO263 $16.65

Hakko 936 Soldering Station

This station features a new thin grip iron, compatible with the Hakko 900 series of tips and heating elements. **Features:** use with tips for FP removal and other special tips; Lock screw prevents inadvertent changes in the temperature setting; and stackable design allows two units in the bench space of one unit. **Specs:** .120VAC/60W Heating Element: AC 24V-50W, Temp. Range: 200-480°C (392-896°F),Temp. Stability: ±0.5°C (0.9 °F). (Japan)

110V Stations

No. 821ST369 Non-ESD Station..... **$110.95**
No. 821ST612 ESD Station..... **$99.00**

220V Stations and Irons – CE

Non-ESD Version with 907 Iron and Tip
No. 821SO675..... **$186.00**
Non-ESD Version with 908 Iron and Tip
No. 821SO676..... **$186.00**
Non-ESD Version with 900 Iron only
No. 821SO300..... **$196.85**

ESD Version with 907 Iron and Tip
No. 821SO678..... **$194.00**
ESD Version with 908 Iron and Tip
No. 821SO679..... **$194.00**

Tips for Hakko 936/937
Hakko Micro 900- Series Soldering Tips

S-Type Slim Iron Micro Soldering Tips

Tip	TT No.	Model No.	Description	PRICE/Ea.
	821TI902	S-T-1C	1mm Chisel, 60°	$6.50
	821TI003	S-T-1.2D	1.2mm Chisel	$6.60
	821TI277	S-T-1.6D	1.2mm Chisel	$6.57
	821TI020	S-T-2C	2mm Chisel, 45°	$6.60
	821TI911	S-T-B	0.5mm Conical	$6.60
	821TI908	S-T-1	0.2mm Conical	$6.60

M-Type Medium Iron Micro Soldering Tips

Tip	TT No.	Model No.	Description	PRICE/Ea.
	821TI008	M-T-0.8D	0.8mm Chisel	$6.60
	821TI012	M-T-1.2D	1.2mm Chisel	$5.00
	821TI050	M-T-1.6D	1.6mm Chisel	$5.00
	821TI052	M-T-2.4D	2.4mm Chisel	$5.00
	821TI054	M-T-3.2D	3.2mm Chisel	$5.00
	821TI120	M-T-1.2LD	1.2mm Chisel	$5.75
	821TI907	M-T-2LD	2.0mm Chisel	$5.75
	821TI058	M-T-B	0.5r mm Conical	$5.00
	821TI060	M-T-LB	0.2r mm Conical	$5.75
	821TI062	M-T-1C	1mm Chisel, 60°	$5.75
	821TI999	M-T-1.5CF	1.5mm	$6.58
	821TI064	M-T-2C	2mm Chisel, 45°	$5.00
	821TI309	M-T-3C	3mm Chisel, 45°	$5.00
	821TI000	M-T-4C	4mm Chisel, 45°	$5.00
	821TI066	M-T-K	5.0mm Knife, 45°	$8.55
	821TI007	M-T-R	Dual Chisel, 5.0 & 3.2mm	$7.70
	821TI9000	M-T-RT	Dual Chisel, 4.2 &2.0mm	$7.70
	821TI068	M-T-1	0.2mm Conical	$5.95
	821TI912	M-T-H	1.2mm Bent Conical, 25°	$5.65
	821TI180	M-T-1.8H	1.8 mm Micro Bent Conical 25°	$5.70
	821TI904	M-T-S4	.08mm Micro Conical	$5.90
	821TI006	M-T-S6	1.3mm	$5.00
	821TI302	M-T-S8	0.5rl	$16.20
	821TI301	M-T-S9	1.0mm Chisel	$5.95
	821TI930	M-T-S3	5.2mm Chisel	$7.70
	821TI070	M-T-S7	1.18mm Chisel, 60°	$4.65
	821TI200	M-T-0.2RB	Bent Conical, 30°	$8.40
	821TI905	M-T-0.5C	.5mm Chisel 45°	$6.55
	821TI888	M-T-0.8C	.8mm Chisel 45°	$6.60
	821TI302	M-T-SB	2.0 mm Conical .2r	$16.20

L-Type Large Iron Heavy-Duty Soldering Tips

Tip	TT No.	Model No.	Description	PRICE/Ea.
	821TI420	L-T-B	0.5mm Conical	$5.40
	821TI092	L-T-2B	1mm Conical	$5.40
	821TI906	L-T-LB	0.2mm Conical .2r	$7.85
	821TI016	L-T-1.6D	1.6mm Chisel	$7.95
	821TI024	L-T-2.4D	2.4mm Chisel	$5.40
	821TI032	L-T3.2D	3.2mm Chisel	$5.40
	821TI900	L-T-2C	2mm Chisel, 45°	$5.40
	821TI030	L-T-3C	3mm Chisel, 45°	$5.40
	821TI040	L-T-4C	4mm Chisel, 45°	$5.40
	821TI005	L-T-5C	5mm Chisel, 45°	$6.65
	821TI002	L-T-I	0.2mm Conical	$5.40
	821ST901	L-T-K	5.0mm Knife	$9.00
	821TI909	L-T-S1	5.6mm Conical	$7.25

HAKKO

Hakko 808 Desoldering Gun

The Hakko 808 Kit is a handy, portable desoldering tool with a built-in vacuum pump. No separate station is required. The unique design places the pump and motor above the grip. Delicate tasks are performed with greater ease; the tool can be used for long periods without operator fatigue. Pump maintenance is quick and easy - simply remove the cover. Adjustable temperature control (380°C-480° C/715°F-895°F). **Kit includes**: desoldering tool, solder tip, solder sock and case.

No. 821SO881 ..... **$230.95**

Pre-filter set of 10 pcs.
No. 821PA122 ..... **$5.10**

Ceramic paper filter (large) set of 10 pcs.
No. 821MI033 ..... **$8.35**

Desoldering Maintenance Kit

Kit includes: Drill; Wrench; Spring Filter (set of 10); Ceramic Paper Filter (S) (set of 10) (Protects the pump by filtering flux vapors at the desoldering station); Filter Holder; Ceramic Paper Filter (L) (set of 10) (Protects the pump by filtering flux vapors at the handpiece); Nozzle Cleaning Pin; Nozzle Cleaning Drill; Filter Holder: Front Holder; Cleaning Sponge; Maintenance Brush.

No. 821SO002 ..... **$119.00**

808 Optional Parts

No. 821AC100 Iron Holder **$28.95**
No. 821PA234 Heating Element **$41.95**
No. 821AC042 Cleaning Sponge **$3.10**

Use With Hakko 936, 937, 926, 927, 928.

913/914 Soldering Irons

The Hakko 913/914 Soldering Irons are ESD safe and feature a built-in smoke absorption pipe that, when connected to a fume extraction system, quickly and effectively remove noxious fumes before they can cause problems. The work area remains free of fumes, and soldering work can proceed safely and efficiently. **Specifications:** Power: AC, 24V/50W; Tip to ground resistance: <2Ω; Heating Element: ceramic heater. (Japan)

Optional Parts

Absorption Pipes		Absorption Hoses	
No. 821SO260 Lg.	$12.35	No. 821SO363 2m (6.6 ft.)	$38.50
No. 821SO261 Sm.	$13.85	No. 821SO264 10m (33 ft.)	$211.25
No. 821SO265 Med.	$98.50	No. 821SO267 Lg.	$106.15

Mach-FP Desoldering Iron

The economical iron for SMD desoldering. The ceramic heating element provides faster heat transmission and excellent insulation; over 100 MΩ can be maintained during use. **Specifications**: 85W; Temperature Control: 304°C (580°F); Insulation Resistance: Over 100 MΩ; 210mm (8.27") OAL. (Tip not included) (Japan)

No. 821SO412 ..... **$58.25**

Flat IC Replacement Tips

No. 821TI102 12.5mm (0.5") x 9.5mm (0.37") **$13.95**
No. 821TI108 17.0mm (0.66") x 14.0mm (0.55") **$13.95**
No. 821TI416 23.0mm (0.9") x 20.0mm (0.78") **$13.95**
No. 821TI109 20.0mm (0.78") x 17.0mm (0.66") **$13.95**
No. 821TI914 9.0mm (0.35") x 18.0mm (0.7") **$13.95**

Dash Soldering Iron

Compact, lightweight design with a slender handle for a more comfortable grip. The rod-type ceramic heater provides high insulation and reduces the handle-to-tip distance for faster soldering. **Specifications:** Power Consumption: 25W; Heating Element: ceramic; Max. Temp.: 450°C (842°F); Resistance: 100MΩ; 192mm (7.5") OAL. (Tip not included) (Japan)

No. 821SO454 ..... **$28.50**
Replacement Tip
No. 821TI452 17mm (0.66") **$5.00**

456 Soldering Iron

The Hakko 456 incorporates a ceramic heating element. Alloy-coated iron tips ensure long-lasting protection from corrosion. The Hakko 456 is ideal for soldering chasses, dynamos, large harnesses, transformers and other large components and assemblies (includes tip). **Specifications:** 60W; Max. Temperature: 599°C (1110°F); 250mm (9.8") OAL. (Japan)

No. 821SO616 ..... **$46.75**

SMD Hot Tweez Kit

Plugged into any 926, 927, 928, 937, 939, 700C or 702 station.
Can be calibrated.
Specifications: 60W; Output Voltage: 24V; Temperature: 200°C-400°C (392°F-752°F); Standard Tip: 2.0 mm. **Includes:** Hot Tweez, one set of tips, alignment block, and heat pad. (Japan)

No. 821SO950 ..... **$137.25**

Hakko 599 Sponge

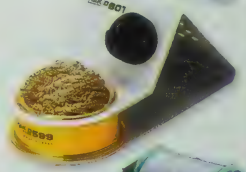
Cleans better than conventional sponges. No water required. Will not reduce the tip temperature. (Japan)

A. No. 821SO399 ..... **$8.35**

Solder sock

B. No. 821SO605 ..... **$6.95**

Hakko 601 Holder



The Hakko 599 cleaner never needs wetting, saves time, and holds many different sizes of soldering irons. Made of temperature-resistant materials, and includes a non-skid base. (Japan)

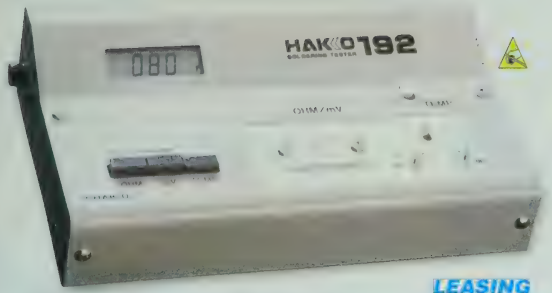
No. 821AC601 ..... **$17.60**

Solder Reel Stand

Draw out your solder wire smoothly. Keeps your bench neat. Holds max. 1 kg. Solder wire roll.

No. 821SO611 ..... **$14.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400



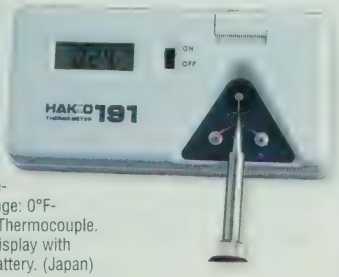
LEASING AVAILABLE!

Hakko 192 Soldering Tester

The Hakko 192 measures tip temperature, leak voltage and tip-to-ground resistance. True root-mean-square values are measured and displayed. The tester is resistant to drift and ambient temperature variations, ensuring highly reliable and accurate measurements. Measurements may be sent to a variety of monitors for recording. Easily replaceable temperature sensors ensure accuracy. **Specifications:** Temperature: Resolution: 1°F, Measurement range: 0°F-1200°F, Precision: ±6°F, Sensor: K(CA) thermocouple; Voltage: Resolution: 0.1mV, Measurement range: 0-90mVAC, Accuracy: ±5%; Resistance: Resolution: 0.1 Ohm, Measurement Range 0-90 Ohms, Accuracy: ±5%; Monitor Output: Temperature: 1mV/°C, °F, Voltage: 10mV/mV, Resistance: 10mV/Ohm, Burn out: -7V (max.); Power consumption: 1W; Operation environment: 0~104°F, 0~80% RH. *Meets MIL-STD-2000.* (Japan)

No. 821SO192 ..... **$1050.25**

Hakko 191 Thermometer



The fast, accurate tip temperature thermometer uses a fine CA wire sensor (0.2ø). Large easy-to-read digital LED temperature display. The sensor, with special metal alloy coating, resists corrosion and oxidation. Quick and easy sensor replacement. Resolution:- 1°F. Range: 0°F-1200°F. Applied Sensor: K (CA) Thermocouple. Display: 3.5 digit liquid crystal display with battery. Power Supply: 9V dry battery. (Japan)

°F-Type Thermometer
No. 821ME191 ..... **$217.20**

°C-Type Thermometer
No. 821GA191 ..... **$217.20**

Choose These Options:
Thermocoupled Tip, type "K" (Nipple not included.) No. 821TI251 ..... **$26.50**
Temp probe for measurement of solder pots. No. 821AC310 ..... **$155.25**
Sensor Set–10 pc. No. 821SO211 ..... **$18.50**

Tools Of The Trade

Self-Teaching Course

Effectively and easily train your employees on the proper use of working in a correct soldering technique. These self-paced software programs run on Multimedia PC under Windows, are easy-to-use and patiently guide the student to convey an understanding of each technique. These programs will also keep track of your students' training records with a built-in Administrator's Module. It prints student exams, certificates and summary reports. Courses are divided into three modules. **Includes:** Module 1: "Tools and Materials." Module 2: "Proper Through Hole Soldering Techniques." Module 3: "Rework and Repair of Printed Wiring Boards."

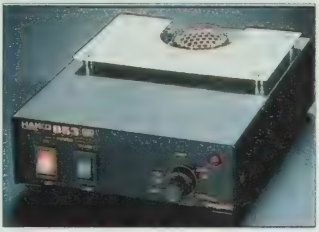
No. 259ED300 ..... **$375.00**

Hakko Smoke Absorber

Uses activated-carbon filter and a high efficiency fan. Soldering smoke contains salicyclic acid, pinene and noxious components that if inhaled can result in headaches, nausea, eye diseases, etc. Absorbs 80% of these noxious components with a special filter with refined activated carbon. A compact, self-standing unit that can be adjusted to any angle for maximum smoke absorption. Power: 14W, Absorption Cap: 37.79 cu/ft. per min. (Japan)

No. 821PR491 110V **$104.65**
No. 821PR4491 Five Filters **$21.55**
No. 821SO935 220V **$129.00**
Optional Parts: Arm Stand with clamp. 15.7"L x 12"H.
No. 821AC023 ..... **$136.40**

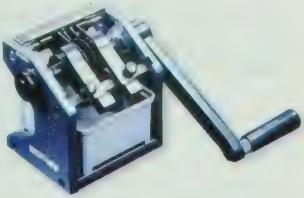
853 Printed Circuit Board Pre-Heater



Compact design allows you to simply slide this under high density large heat syncs, and/or multi-layer rework application circuit boards. This pre-heater has excellent thermal stability, and temperature control with a closed loop feed back system. **Specifications**: 120V AC; Hot Air Temp: 120-250°C (248-482°F); Air Flow: 0.18m³/min (6.35ft³/min). (Japan)

No. 821SO853 ..... **$299.00**

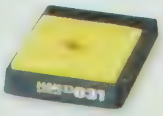
Hakko Lead Former



The Hakko Lead Former features a wide adjustable bending length with high-quality cutting blade for a clean, smooth cut and long life. The unique component removal plate protects components from damage caused by the leads touching while being removed. (Japan)

Hakko 153 Lead Former: Forming size of 5.6mm (0.22 in.) pitch, with a max. lead diameter is 0.8mm (0.03 in.).
No. 821PL153 ..... **$996.95**
Hakko 154 Lead Former: Forming size of 5mm (0.2 in.) pitch, with a max. lead diameter is 0.5mm (0.02in).
No. 821PL154 ..... **$996.95**

Replacement Sponges



Replacements for the Hakko 702, 703, 928, 936, 937 and 939 stations. Size 3.8" x 6.5".

No. 821AC042 ..... **$3.10**

Dip Liner

Your Hakko Dip Liner is a low-cost, high-performance tool for reforming IC and LSI leads. Speeds IC and LSI insertion. Simply insert the IC case into the Dipliner chute, and the leads are protected right through circuit board insertion.

FT100: #IC Leads – 8, 14, 16, 18, 20
No. 821PR100 ..... **$31.75**
FT200: #IC Leads – 24, 28, 40, 42
No. 821PR200 ..... **$34.95**

PRC2000 Benchtop Thru-Hole System

The PRC 2000 brings to your benchtop, a process controlled, factory capability for: universal SMT component installation and removal; self-contained solder cream dispensing; surface mount land preparation; high capacity Thru-Hole component removal and installation; substrate repair; circuit/ interconnection repair and modification; conformal coating removal/installation and more.

Thermal Management Center: SensaTemp Control

The PRC 2000's Thermal Management Center powers and controls three SensaTemp handpieces simultaneously for safe, rapid installation and removal of virtually all surface mount and thru-hole components. Fully self-contained with three separate pumps for Sodr-X-Tractor, ThermoJet, and ThermoPik operation, liquid dispensing and Pik-Vac component handling. Wide array of standard handpieces, nine (9) in all. Operates any three SensaTemp handpieces simultaneously. Continuous automatic calibration, auto/manual temperature setback, auto power down, and constant memory. Built-in password security function. Auto tip offset compensation system. Three auxiliary SensaTemp controlled channels (rear panel) for future AC line powered accessories.

Pulse Heat and Pulse Plate

An array of low voltage Pulse Heat handpieces offer: hot bar SMD rework; circuit land and trace repair; conformal coating removal; resistive tweezer soldering; thermal wire stripping. Conductive tweezer soldering. The Pulse Plate section offers variable controlled DC pulse current for high-quality electroplating of edge connectors and other circuit contacts with gold, nickel and other metals. *(Electro Plating Kit Optional)*

Pik & Paste

Precision, automatic dispensing of solder creams, paste fluxes and other materials without shop air! Self-contained, high capacity pump with timing control. Pik-Vac component handling wand with finger actuated release.

MicroChine

Lightweight, variable-speed machining handpiece for precision circuitry and substrate repairs on today's advanced boards. Advanced EOS/ESD safety for working on sensitive boards. "Smooth Start" integral handpiece motor for unparalleled control and ease of use. Integral finger-switch control. Quiet, low vibration operation. Closed-Loop tachometer feedback maintains controlled drilling/milling rates under varying loads. Dynamic braking stops machining instantly for enhanced safety. Unique Probe Brake feature for safe multilayer repair. **Includes:** PRC 2000 Sensatemp, PS-80 Handpiece, SX-80 Sodr-X-Tractor, TT-65 ThermoTweez, TJ-70 ThermoJet; TP-65 ThermoPik, LF-15 LapFlo Hot Bar Handpiece, TW-15 ResisTweez Handpiece, MC-65 MicroChine and PV-65 Pik-Vac Wand. **PRC 2000** 115VAC, 60Hz, 400 Watts. **(USA)**
No. 612PA0132(P/N 8007-0132) **$3780.00**

PRC-2000 Handpieces & Accessories

LF-15 LapFlo Handpiece (Static Dissipative)
No. 612PT0004 (7013-0004-02-P1) **$115.00**

LF-1 Single Point SMD Soldering Tip (LapFlo)
No. 612TI008 (6000-0008) **$15.25**

ThermoPart Coating Removal Tip
No. 612TI0009 (6000-0009) **$15.25**

LF-2 Multi-point SMD Soldering tip 5.49mm (0.270")
No. 612TI298 (1121-0298-P1) **$68.25**

LF-3 Multi-point SMD Soldering Tip 13.72mm (0.540")
No. 612TI299 (1121-0299-P1) **$54.00**

LF-4 Multi-point SMD Soldering Tip 11.18mm (0.440")
No. 612TI300 (1121-0300-P1) **$54.00**

Universal Power Cord
No. 612MI723 (7000-0023)..... **$59.50**

CT-15 Conductweez Handpiece (Static Dissipative)
No. 612PT0001 (7020-0001-P1).... **$152.00**

CT-1 Chip Component Tip
No. 612TI286 (1121-0286-P1) **$42.25**

Guide Block Kit
No. 612PA993 (6993-0105-P1)..... **$17.50**

CT-2 14, 16 lead SOIC Tip
No. 612TI271 (1121-0271-P1) **$74.00**

CT-3 20 lead SOIC Tip
No. 612TI270 (1121-0270-P1) **$74.00**

CT-4 24, 28 lead SOIC Tip
No. 612TI293 (1121-0293-P1) **$74.00**

CT-5 SOT Tip
No. 612TI269 (1121-0269-P2) **$34.75**

CT-6 Round End Auxillary Heating Tip
No. 612PA827 (1121-0004-P2)..... **$27.50**

Tip Mounting Screw
No. 612PA826 (1405-0182-P5)..... **$4.00**

TW-15 ResisTweez Handpiece (Static Dissipative)
No. 612PT0005 (7009-0005-P1).... **$130.00**

RT-1 18 Pin PLCC ThermoBand Tip
No. 612TI294 (1121-0294-P1) **$68.25**

RT-2 20 Pin PICC ThermoBand Tip
No. 612TI295 (1121-0295-P1) **$68.25**

RT-3 28 Pin PLCC ThermoBand Tip
No. 612TI296 (1121-0296-P1) **$68.25**

32 Pin PLCC ThermoBand Tip
No. 612PA348 (1121-0348-P1)..... **$73.25**

RT-4 44 Pin PLCC ThermoBand Tip
No. 612TI297 (1121-0297-P1) **$68.25**

RT-5 Tapered Flat End Resistance Tip
No. 612TI301 (1121-0301-P1) **$54.00**

RT-6 Round End Resistance Tip
No. 612TI009 (1121-0009-P2) **$13.00**

RT-7 Flat End Resistance Tips
No. 612TI006 (1121-0006-P2) **$8.00**

TS-15 StripTweez Handpiece (Static Dissipative)
No. 612PT0002 (7012-0002-P1).... **$162.75**

Thermal Stripper Tips
No. 612PT0003 (1121-0003-P2).... **$14.00**

Need another catalog? Call us today...
1-800-505-TOOL

MBT-250SDPT SMT/ Thru-Hole Repair System

The MBT250SDPT provides you with an advanced, microprocessor-based Thermal SMT & Repair Management Center which powers and controls three SensaTemp handpieces simultaneously for safe, rapid installation and removal of surface mount and thru-hole components.

Features Include:

- ***Auto tip temperature offset*** compensation system to set and display true tip temperatures • ***Rapid Temperature Recovery***
- ***Setback*** automatically reduces tip temperature to 350°F/177°C after 10-90 min. Manual mode allows you to put all channels into Setback
- **"Auto Off"** ***Power Down*** feature turns off power to all three channels 90 minutes after all active channels have entered Setback mode, eliminating the possibility of leaving the unit on overnight
- ***High Power, 3 Channel System*** — 185 watts total power. Independently powered
- ***Tip & Temperature Selection System Charts*** — Makes choosing the right tip and temperature easy
- ***Digital Readout*** — Displays the channels' temperature, error codes and programming status • ***Handles are static dissipative for ESD safety.***
- ***F°/C° Selector Key*** — Displays set and operating temperature in either Fahrenheit or Centigrade
- ***Keyboard Entry Microprocessor Control*** — All system settings are entered on a "user-friendly" array of keys with audible feedback
- ***SensaTemp Closed-Loop Temperature Management***
- ***Controlled PRESSURE Port*** — controlled air flow for ThermoJet handpiece
- ***AUTO SNAP-VAC Port*** - Quick-rise vacuum (10" Hg at tip within 150m) for high-performance soldering and desoldering
- ***Key/Lock Option*** — Prevents unauthorized re-calibration or alteration of temp settings
- Minimum vacuum on-time reduces tip maintenance
- Tip and Tool Stand Include integrated tip holders and water well/sponge system. Standard Handpieces: PS-80 Handpiece, SX-80 SODR-X-Tractor, TP-65 ThermoPik, TT-65 ThermoTweez

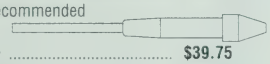
MBT-250SDPT: 110-115 VAC, 50/60Hz, 185W, 1.6A *Meets MIL-STD-2000A.*
No. 612PA250 (P/N 8007-0206)..... **$1680.00**
220VAC AVAILABLE – CALL

PACE Tips for Endura and the PS-80

Endura Desoldering Tips for SX70 & SX80 Irons Only

The Endura desoldering tips feature a unique stainless steel tube placed inside of the copper portion of the tip. This stainless steel tube provides a non-eroding surface allowing flux and solder to pass easily through the tip. The Endura-desoldering tips are available in Thermo-Drive, Extended Reach Thermo-Drive, Flo-D-Sodr, and "new" precision and precision Flo-D-Sodr tip configurations. Pack of five.

Thermo-Drive Tip, Endura, THDR is recommended for thru-hole desoldering - 5 Pk.



No. 612TI625 (1121-0625-P5) .030ID **$39.75**
No. 612TI624 (1121-0624-P5) .040ID **$39.75**
No. 612TI626 (1121-0626-P5) .060ID **$39.75**
No. 612TI627 (1121-0627-P5) .090ID **$39.75**

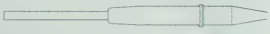
Thermo-Drive Flathead - 5 Pk.

No. 612PA079 (1121-0821-P5) 0.050" - 0.190" **$39.75**

Extended - 5 Pk.

No. 612TI628 (1121-0628-P5) .030 ..... **$39.75**
No. 612TI629 (1121-0629-P5) .040 ..... **$39.75**
No. 612PA630 (1121-0630-P5) .060..... **$39.75**

Precision - 5 Pk.



No. 612TI680 (1121-0680-P5) .020ID **$19.00**
No. 612TI678 (1121-0678-P5) .030ID **$19.00**
No. 612TI679 (1121-0679-P5) .040ID **$19.00**
No. 612TI690 (1121-0690-P5) .060ID **$19.00**
No. 612TI695 (1121-0695-P5) .090ID **$19.00**

Recommended for Surface Mount Land Desoldering - 5 Pk.

No. 612TI631 (1121-0631-P5) FLODSODR .060ID..... **$39.75**

Precision - 5 Pk.

No. 612TI681 (1121-0681-P5) .020 ..... **$27.50**
No. 612TI682 (1121-0682-P5) .030 ..... **$27.50**
No. 612TI683 (1121-0683-P5) .040 ..... **$27.50**

Long Life Tips for PS-80 Irons Only

Tip	TT No.	Description	PRICE/5 Pk.
	612PA606	1/16" Chisel High Capacity	$31.25
	612PA639	1/32" Conical	$31.25
	612PA607	1/64" Conical	$31.25
	612PA640	1/16" Chisel Long Reach	$31.25
	612PA641	1/8" Chisel	$31.25
	612PA642	1/16" Chisel	$31.25
	612PA643	1/32" Chisel	$31.25
	612PA644	3/32" Chisel	$31.25
	612PA645	1/16" Chisel Extended Reach	$31.25
	612PA646	1/16" Bent Chisel Extended Reach	$39.50
	612PA608	Mini-Wave	$39.50
	612PA647	Single Sided Chisel	$31.25
	612PA648	Angled Mini-Wave	$39.50
	612PA649	1/16" Chisel Micro Fine	$31.25
	612PA605	3/16" Chisel	$31.25
	612PA651	1/32" Bent Chisel	$31.25
	612PA652	Flat Blade, 1/4"	$9.25
	612PA653	1/8" Chisel, Thermo Drive	$39.50
	612PA654	1/32" Conical, Extended Reach	$31.25
	612PA655	1/64 Bent Conical	$39.50
	612PA656	Single-Side Chisel, Fine	$39.50
	612PA657	Angle Mini-Wave, Fine	$39.50

PACE

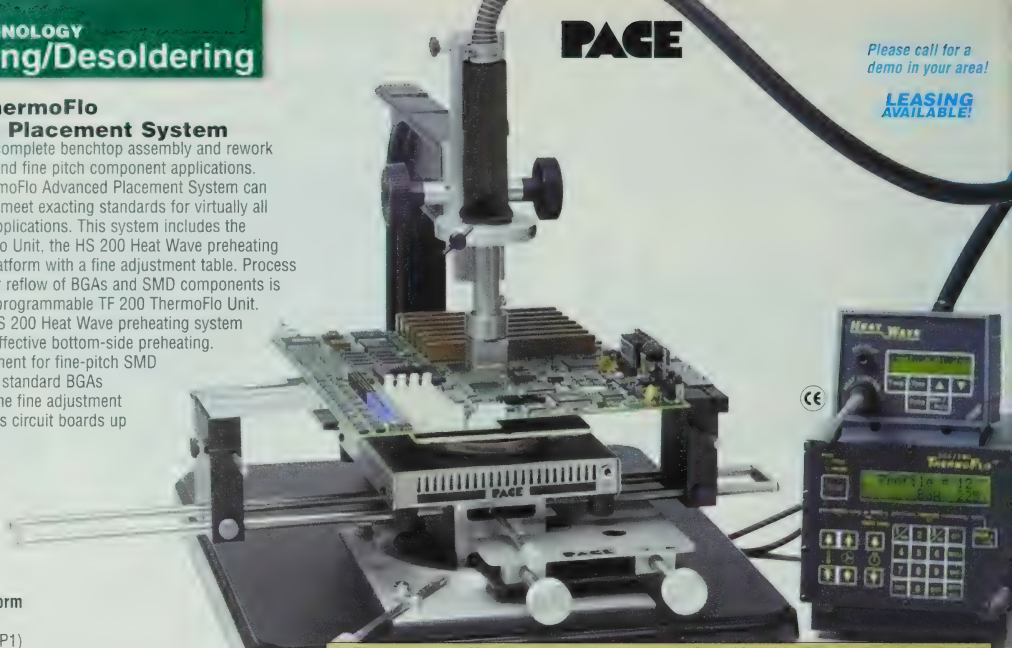
Please call for a demo in your area!

LEASING AVAILABLE!

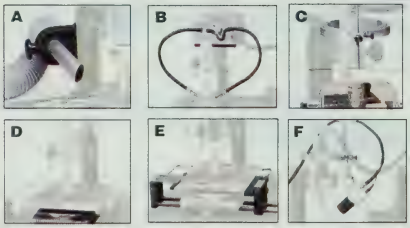
TF 700 ThermoFlo Advanced Placement System

The TF 700 is a complete benchtop assembly and rework station for BGA and fine pitch component applications. The TF 700 ThermoFlo Advanced Placement System can be configured to meet exacting standards for virtually all surface mount applications. This system includes the TF 200 ThermoFlo Unit, the HS 200 Heat Wave preheating system, and a platform with a fine adjustment table. Process controlled hot-air reflow of BGAs and SMD components is provided by the programmable TF 200 ThermoFlo Unit. The integrated HS 200 Heat Wave preheating system allows fast and effective bottom-side preheating. Workpiece alignment for fine-pitch SMD components and standard BGAs is simple using the fine adjustment table, which holds circuit boards up to 18" square.

No. 612PA0098
(P/N 8017-0003)
$6560.00



Advanced Placement Platform
No. 612PA1010
(P/N 6018-0110-P1)
$4325.00



The ThermoFlo System can be upgraded with any combination of the following add-on features to further enhance process control capabilities!

A. Fume Extraction "Ready" Attachment
Allows quick connection to a fume extraction system.
No. 612PA0105 (6018-0105)..... **$189.50**

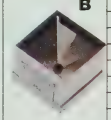
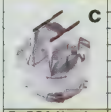
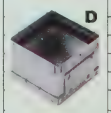
B. Fiber Optic Lighting Attachment
Includes: Fiber optic light source with dual gooseneck lights; Integrated light source mounting platform. 115VAC.
No. 612PA0100 (6018-0100) **$1405.00**

C. Lens Vision Attachment
Includes: Magnifying lens (with adjustable angle-of-view). Precision 270° swivel attachment with rotation and 90° stops. Mounting arm.
No. 612PA0104 (6018-0104) **$514.00**

D. Integrated Heat Wave Preheating System (shown with Large Board Holder) HS 200 Heat Wave Preheat System. Convective preheating controlled by ThermoFlo Unit. 115VAC.
No. 612SO231 (8007-0231) **$1100.00**

E. Large Board Holder
hold boards up to 46cm (18").
No. 612PA095 (6018-0095)..... **$428.00**

F. Camera Vision Attachment
Includes: Camera with zoom lens. Power supply. Precision swivel attachment with 270° rotation. Mounting arm.
No. 612PA0102 (6018-0102) NTSC..... **$1895.00**

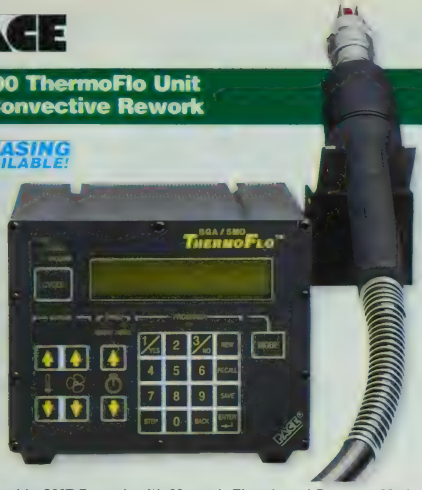
Tip	TT No.	Application	Size (Outside Dimensions)	PRICE
A. Single Jet Nozzles				
A	612PA2810	Curved, Round	3.0mm (0.1") dia.	$84.00
	612PA1002	Curved, Round	5.0mm (0.2") dia.	$84.00
	612PA1003	Curved, Round	8.0mm (0.3") dia.	$84.00
	612PA1012	Straight, Round	5.0mm (0.2") dia.	$84.00
	612PA1013	Straight, Round	8.0mm (0.3") dia.	$84.00
	612PA1021	Flat End Nozzle	13.21mm (.52") x 1.65mm (.065")	$104.00
	612PA1022	Flat End Nozzle	23.4mm (.92") x 1.40mm (.055")	$104.00
B. Box Nozzles				
 B	612PA2001	PLCC-18	8.5mm x 12.1mm (0.34" x 0.48")	$114.00
	612PA2002	PLCC-20	10.2mm x 10.2mm (0.40" x 0.40")	$114.00
	612PA2003	PLCC-28	12.8mm x 12.8mm (0.50" x 0.50")	$114.00
	612PA2004	PLCC-32	12.8mm x 15.3mm (0.50" x 0.60")	$114.00
	612PA2005	PLCC-44	17.9mm x 17.9mm (0.70" x 0.70")	$114.00
	612PA2006	PLCC-52	20.4mm x 20.4mm (0.80" x 0.80")	$114.00
	612PA2007	PLCC-68	25.5mm x 25.5mm (1.01" x 1.01")	$114.00
	612PA2008	PLCC-84	30.6mm x 30.6mm (1.2" x 1.2")	$114.00
	612PA2009	PLCC-100	38.9mm x 38.9mm (1.53" x 1.53")	$114.00
	612PA2501	QFP-80/100	18.1mm x 24.1mm (0.71" x 0.95")	$114.00
	612PA2502	QFP-64/80	17.0mm x 17.0mm (0.67" x 0.67")	$114.00
	612PA2503	QFP-132	26.9mm x 26.9mm (1.06" x 1.06")	$114.00
	612PA2504	QFP-160	31.9mm x 31.9mm (1.26" x 1.26")	$114.00
	612PA2505	QFP-208	31.5mm x 31.5mm (1.24" x 1.24")	$114.00
	612PA2506	QFP-240	34.6mm x 34.6mm (1.36" x 1.36")	$114.00
	612PA1501	Box (rectangular)	44mm x 30mm (1.73" x 1.18")	$114.00
	612PA3002	TQFP 32	11.5mm sq. (.453" sq.)	$114.00
	612PA3004	TQFP 120	15.5mm sq. (.610" sq.)	$114.00
C. Pattern Nozzles				
 C	612PA4001	SOIC-8	4.1mm x 6.1mm (0.16" x 0.24")	$104.00
	612PA4002	SOICL-14/16	4.1mm x 10.9mm (0.16" x 0.43")	$104.00
	612PA4004	SOICL-20	7.9mm x 13.5mm (0.31" x 0.53")	$104.00
	612PA4005	SOICL-24	7.9mm x 16mm (0.31" x 0.63")	$104.00
	612PA4006	SOICL-28	7.6mm x 18.5mm (0.31" x 0.73")	$104.00
	612PA4007	SOICL-32	11.68mm (46") x 20.83mm (82")	$114.00
	612PA4505	TSOP 48	18.6mm sq. (.734" sq.)	$114.00
D. BGA Nozzles				
 D	612PA5010	BGA-18	8.64mm x 8.90mm (.34" x .35")	$114.00
	612PA5008	BGA-32	10.42mm x 10.42mm (.41" x .41")	$114.00
	612PA5009	BGA-40/44	11.97mm x 13.21mm (.47" x .52")	$114.00
	612PA5007	BGA-68	13.45mm x 14.97mm (.53" x .59")	$114.00
	612PA002	BGA-169	23mm x23mm (.91" x .91")	$114.00
	612PA5005	BGA-196	15mm x 15mm (.59" x .69")	$114.00
	612PA5001	BGA-225/256	27mm x 27mm (1.1" x 1.1")	$114.00
	612PA330	BGA-313	35mm x 35mm (1.38" x 1.38")	$114.00
	612PA011	BGA 357	25.0mm x 25.0mm (.98" x .98")	$114.00
	612PA015	BGA 560	42.5mm x 42.5mm (1.67" x 1.67")	$114.00
	612PA5501	Micro BGA	7.85mm x 6.4mm (.30" x .25")	$114.00
	612PA5502	Micro BGA	7.75mm x 5.6mm (.30" x .22")	$114.00
Adapters				
	612PA2080	Common Adapter		$125.00

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

PACE

TF 200 ThermoFlo Unit For Convective Rework

LEASING AVAILABLE!



Programmable SMT Rework with Manual, Timed, and Program Modes. Multi-level password lock-out prevents unauthorized changes in any mode of operation. Audible countdown timer for end of cycle indication in the Timed and Program modes. PC expansion interface (RS-232) comes standard for extended memory capabilities and process control beyond the Program mode. Bottom-side preheat interface offers control of PACE's exclusive Heat Wave for the added benefit of wide area preheating. QuietFlo turbine blower offers nearly silent operation. On-screen display during operation indicates zone status (preheat, soak, reflow, ramp-down) and parameters (temperature, time). Unit includes power source, handpiece/reflow head and Quick Fit nozzle adapter. **Specs:** 120VAC, 60Hz, 700 Watts. **(USA)**
No. 612PA296 (8007-0296) **$1795.00**

TF 500 ThermoFlo Convective Rework System

LEASING AVAILABLE!

The ThermoFlo System is a complete benchtop assembly and rework station which combines the ThermoFlo Unit with a work platform. The work platform includes a precision vertical slide that converts the ThermoFlo handpiece into a reflow head. A standard board holder allows easy workpiece alignment for component removals and installations. System includes a work platform, standard board holder and ThermoFlo Unit. **Specs:** 115VAC, 60Hz. 700 Watts. **(USA)**
No. 612PA0010 (8017-0001) **$3150.00**

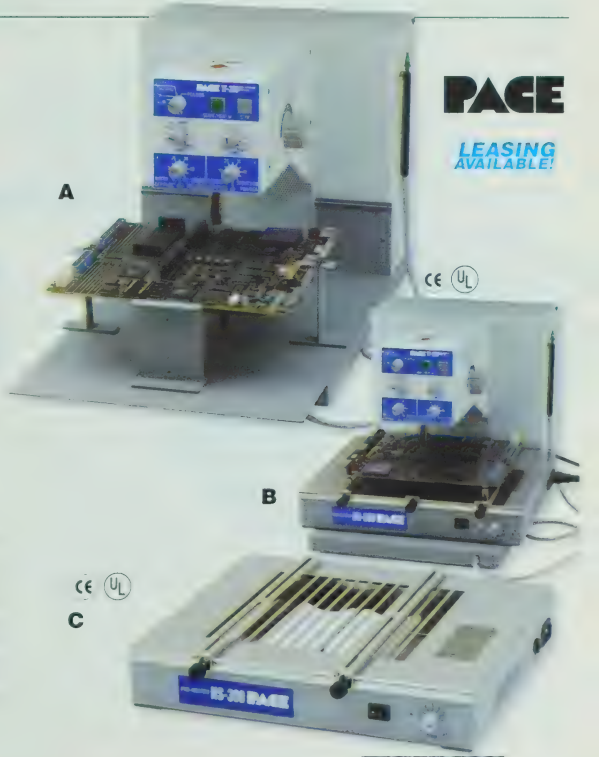
TF 350 & HS 300

TF 350 No-Nozzle Convective Rework Station

The TF 350 is a highly versatile, easy to use, convective soldering/desoldering system that does not require nozzles. Capable of removing any type of surface mount component, including area array devices, and surface mount connectors up to 2" (50mm) long. The TF 350 can also be used to install most SMT packages. The system features multiple modes of operation, adjustable temperature and air flow, as well as a timer for repeatable operations. Using the integral, hot gas jet, the unit can be configured to trace the land pattern of QFPs, SOICs, TSOPs, or to make concentric passes over area array packages. The TF 350 includes a fully adjustable work platform capable of holding most PCBs and comes with a board support and a vacuum wand for placing or lifting components from the PCB. The system is self-contained and requires no external vacuum or air supplies. **Specs:** Dimensions: (12.2" H x 11.8" W x 17.7" D); Power Requirements: 120V 60 Hz 360 Watts; Maximum device size: 2" (50mm) square; Airflow: 6 and 12 SLPM; Max PCB: Maximum Length - 420mm (16.5") Maximum Width - No Limit
A. No. 612PA341 115VAC, 50 Hz,(P/N 8007-0342) **$5500.00**
B. Illustrates how you can complete this unit with the HS300 Radiant Pre-Heater.

PACE

LEASING AVAILABLE!



HS 300 Radiant Pre-Heater

When pre-heating is required for reworking even the most demanding high mass electronic assemblies, the HS 300 delivers the heat. Powered by two, 200 watt, closed-loop thermo-couple temperature controlled radiant heating elements, the HS 300 is capable of preheating the PCBs effectively and evenly. The wide area preheating prevents damage to substrates and components due to moisture, thermal shock, and board warpage. The HS 300 comes with fully adjustable PCB supports and a variety of support pins. The unit can be used by itself or with any rework system. **Specs:** Dimensions: 62mm H x 350mm W x 295mm D (2.4" H x 13.8" W x 11.6" D); Power Requirements: 120V 60 Hz 400 Watts; Heating Area: 8.3 x 6.8"; Temperature Range: 212°F (100°C) - 450°F (230°C)
C. No. 612PA344 115VAC (P/N 8007-0344) **$2450.00**

PACE

MBT 201-SD Auto Snap-Vac®

This high performance, low temp soldering/ desoldering system has full SMT upgradeability. The MBT 201-SD comes complete with the PS-80 handpiece and SX-80 Sodr-X-Tractor, the industry standards in high performance, low temperature soldering and desoldering. Joining this team is PACE's NEW patented AUTO SNAP-VAC® quick rise vacuum system providing an automatic 1.2 second vacuum-on time, virtually eliminating re-sweat joints and dramatically increasing tip life. The NEW "QUIET FLO" pump restores peace and quiet, provides quick-disconnect vacuum. The PS-80 handpiece provides full-range SMD installation and removal capability, with over 70 quick change thru-hole and SMD tips for SOTs, SOICs, SOICLs, and other components.

MBT 201-SD

MBT 201-SD: Full SMT Upgradeability

Upgrade your existing MBT 201-SD to a customized SMT/Thru-Hole system to suit virtually any combination of assembly and repair tasks. NEW! AUTO SNAP-VAC® improves thru-hole desoldering performance, increases tip life! A PACE EXCLUSIVE feature. NEW! "QUIET FLO" pump for vacuum and pressure. Dual channel capability. High capacity, low temperature SMT/Thru-Hole soldering, with the widest range of over 70 tips now available for all applications! Full range two-sided and four-sided SMT Upgradeability. 115KVAC, 50/60 Hz., 184W, 1.6A. Standard Handpieces: PS-80 handpiece, SX-80 SODR-X-Tractor. **MBT 201-SD**

No. 612PA201 (P/N 8007-0200) **$867.00**

220VAC AVAILABLE – CALL!

MBT 250-SD Soldering & Desoldering System

The MBT 250SD powers and controls the SX-80 Sodr-X-Tractor and PS-80 handpieces, for safe, rapid installation and removal of a wide variety of surface mount and thru-hole components. The power source incorporates highly responsive SensaTemp temperature control system that provides up to 185 watts to the three independently controlled output channels. The optional TT-65 ThermoTweez, TP-65 ThermoPik, and TJ-70 ThermoJet handpiece units provide FULL SMT upgradeability, allowing replacement of virtually all SMD and thru-hole components. Standard Handpieces: PS-80 handpiece, SX-80 SODR-X-Tractor. 115VAC, 60Hz, 185W.

MBT 250-SD

No. 612PA220 (P/N 8007-0203) **$1275.00**

220VAC AVAILABLE – CALL

MBT 250-SD System

Optional Handpieces

No. 612IR0001 TT-65 (P/N 7025-0001-P1)..... **$273.00**

No. 612IR024 TP-65 (P/N 7024-0001-P1)..... **$238.00**

No. 612IR023 TJ-70 (P/N 7023-0002-P1)..... **$262.50**

No. 612PA691 PS-80 (P/N 6010-0096-P1) **$106.25**

SensaTemp Production Soldering

ST 65-SX - SensaTemp Production Desoldering

Quick glance temperature indicator allows the operator temperature verification from a distance; Low temperature/high capacity desoldering of multi-layer boards; Quiet shop-air operation; Adjustable °F/°C temperature control dial; Auto Snap-Vac eliminates operator error and increases heater/tip life. **System Specs:** Operates on 97-127 VAC, 50/60 Hz, 90 Watts maximum at 115 VAC, 60 Hz. **Temperature Specs for Handpieces:** Tip Temperature Range: 204° to 454°C (400° to 850°F) nominal. Temperature Stability: 1.1°C (2°F) at idle from set tip temp. **Shop Air Input Requirements:** Pressure: 5.48 Bar (80 p.s.i.) recommended, 6.17 Bar (90 p.s.i.) maximum; Air Flow: 45.3 SLPM (1.6 SCFM) minimum.

No. 612PA321 (P/N 8007-0321) **$431.00**

ST 85-SX - Digital SensaTemp Production Desoldering

Digital LED temperature readout for easy viewing from any angle; Color coded temperature control keys for highly visible temperature adjustment allows for easy set up and programming; Auto Snap-Vac eliminates operator error and increases heater/tip life; Low temperature/high capacity desoldering of multi-layer boards; Quite shop air operation. **System Specs:** Operates on 97-127 VAC, 50/60 Hz, 90 Watts maximum at 115 VAC, 60 Hz. **Temperature Specs for Handpieces:** Tip Temperature Range: 204° to 482°C (400° to 900°F) nominal. Temperature Stability: 1.1°C (2°F) at idle from set tip temp. **Shop Air Input Requirements:** Pressure: 5.48 Bar (80 p.s.i.) recommended, 6.17 Bar (90 p.s.i.) maximum; Air Flow: 45.3 SLPM (1.6 SCFM) minimum.

No. 612PA0325 (P/N 8007-0325) **$535.50**

SensaTemp Production Soldering

PACE introduces the newly designed family of ST production soldering and desoldering systems for the new millennium. These new systems are designed with a slanted front panel for easier viewing and modular stacking capabilities for work areas with limited space. As always, the new ST Family is static safe and built with PACE's proven technology and SensaTemp control.

ST 25 - SensaTemp Production Soldering With PS-80 Soldering Iron

Features: Slanted front panel for easier viewing; Adjustable °F/°C temperature control dial; Quick glance temperature indicator to allow you temperature verification from a distance; No calibration required. **System Specs:** Operates on 97/127 VAC, 50/60 Hz, 90W maximum at 115 VAC, 60 Hz. **Temperature Specs: Handpieces:** Tip Temperature Range: 204° to 454°C (400° to 850°F) nominal. Temperature Stability: 1.1°C (2°F) at idle from set tip temp.
No. 612PA309 (P/N 8007-0309)..... **$168.00**

ST 25-TT SensaTemp Production Soldering With TT-65 ThermoTweez Handpiece

Features: Adjustable °F/°C temperature control dial; Temperature/dial lock.
No. 612PA311 (P/N 8007-0311)..... **$352.00**

ST 75-SX Analog Desoldering Station

The ST 75-SX offers the exclusive Auto Snap-Vac feature for improved desoldering performance and extended tip life in an updated compact system that's designed for easier use. Features: LED readout and slanted front panel for easier viewing; Quick glance temperature indicator - allows the operator temperature verification from a distance; Adjustable F/C temperature control dial; Quiet vacuum pump. **System Specs:** Operates on 97-127 VAC, 50/60 Hz, 120 Watts maximum at 115 VAC, 60 Hz. **Temperature Specs: Handpieces:** Tip Temperature Range: 204° to 454°C (400° to 850°F) nominal. Temperature Stability: 1.1°C (2°F) at idle from set tip temp. **Vacuum and Air:** Vacuum Rise Time: 200ms average as measured by PACE PPM 100 Process Monitor; Vacuum: 51cm Hg. (20 in. Hg.) (nominal); Pressure: 1.44 Bar (21 P.S.I.) (nominal at MAX setting); Air Flow: 6 SLPM (0.22 SCFM) maximum.
No. 612PA319 (P/N 8007-0319) **$615.00**

ST 45 - Digital SensaTemp Production Soldering With PS-80 Soldering Iron

Features: Digital LED temperature readout for easy viewing from any angle; Color coded temperature control keys for highly visible temperature adjustment that allows for easy set up and programming; Password lock and temperature setback; No calibration required. **System Specs:** Operates on 97-127 VAC, 50/60 Hz, 90W maximum at 115 VAC, 60 Hz. **Temperature Specs: Handpieces:** Tip Temperature Range: 204° to 482°C (400° to 900°F) nominal. Temperature Stability: 1.1°C (2°F) at idle from set tip temp.
No. 612PA0313 (P/N 8007-0313)(Not shown) .. **$273.00**

ST 45-TT - Digital SensaTemp Production Soldering With TT-65 ThermoTweez Handpiece

Features: Digital LED temperature readout for easy viewing from any angle; Color coded keypad for highly visible temperature adjustments that allow for easy set up and programming; Password Lock and Temperature Setback; Over 45 standard tips
No. 612PA315 (P/N 8007-0315)(Shown) **$457.00**

ST 115-SX - Digital Desoldering Station

PACE introduces the new ST 115, self-contained digital desoldering station. ST 115 offers the exclusive Auto Snap-Vac feature for improved desoldering performance and extended tip life in an updated compact system that's designed for easier use. **Features:** Quiet vacuum pump; Digital LED temperature readout and slanted front panel for easier viewing and programming; Color coded temperature control keys for highly visible temperature adjustment allows easy setup and programming; Auto Snap-Vac which eliminates operator error and increases heater/tip life; Quite shop air operation. **System Specs:** Operates on 97-127 VAC, 50/60 Hz, 120 Watts maximum at 115 VAC, 60 Hz. **Temperature Specs for Handpieces:** Tip Temperature Range: 204° to 482°C (400° to 900°F) nominal. Temperature Stability: 1.1°C (2°F) at idle from set tip temp. **Vacuum and Air:** Vacuum Rise Time: 200 ms average as measured by PACE PPM 100 Process Monitor; Vacuum: 51 cm Hg (20 in. Hg.) (nominal); Pressure: 1.44 Bar (21 P.S.I.) (nominal at MAX setting); Air Flow: 6 SLPM (0.22 SCFM) maximum.
No. 612PA333 (P/N 8007-0333) **$720.00**

PAGE

TT-65 ThermoTweez Handpiece

TT-65 ThermoTweez Handpiece
No. 612IR0001 ..... $273.00
Heater Assembly with Sensor
No. 612IR082 ..... $78.00
Heater Assembly without Sensor
No. 612PA010 ..... $53.00
Tip Alignment Tool
No. 612PA234 ..... $11.50
Cushion Grips
No. 612PA155 ..... $49.00
NOTE: The TT-65 requires a ThermoTweez tip and tool stand which is sold separately.
No. 612MI029 ..... $40.25

TT-65 ThermoTweez Handpiece Tips

Tip	TT No.	Suggested Application	Tip Size A x B Outside Dimensions	PRICE Each
	612TI398	Chip Component	0.03" (0.76mm)	$53.75
	612TI0313	Chip Component	0.08" (2.0mm)	$53.50
	612TI399	Chip Component	0.16" (4.1mm)	$53.75
	612TI0401	Chip Component	0.25" (6.4mm)	$53.75
	612TI436	Chip Component 45°	0.10" (2.54mm)	$51.25
	612TI520	Thin Walled Chip Component (vertical) Small SOIC	A= 0.03" (0.76mm)	$58.00
	612TI521		A= 0.08" (2.0mm)	$58.00
	612TI522		A= 0.16" (4.1mm)	$58.00
	612TI0523		A= 0.25" (6.4mm)	$58.00
	612TI0517	1/64" Angled Fine Point Conical	A=1/64" (0.40mm)	$21.50
SOIC, SOJ Components	612TI512	Narrow Body/SOIC	0.3" (7.6mm)	$58.50
	612TI514	Narrow Body/SOIC	0.4" (10.2mm)	$58.50
	612TI473	SOIC/SOJ	0.5" (12.7mm)	$58.50
	612TI416	SOIC/SOJ	.07" (17.8mm)	$58.50
	612TI497	SOIC/SOJ	0.8" (20.3mm)	$58.50
	612TI448	SOIC/SOJ	1.00" (25.4mm)	$58.50
	612TI495	Surface Mount	1.25" (31.8mm)	$58.50
	612TI475	Surface Mount	1.5" (38.1mm)	$58.50
	612TI477	Surface Mount	2.0" (50.8mm)	$58.50
	612TI056	Protective Guard		$4.25
	612PA0545	Pcmcia Connectors	A=1.75" (44.5mm)	$58.50
	612PA547	Pcmcia Extender	1.75 (44.5mm) x 0.5 (12.7mm)	$58.50
	612TI120	PQFP-80/100	0.66" (16.8mm) x 0.90" (22.9mm)	$58.50
	612PA540	TQFP-100	0.52" (13.2mm) x 0.52" (13.2mm)	$58.50
	612PA542	TQFP - 80/100	0.44" (11.2mm) x 0.44" (11.2mm)	$58.50
A B Application PLCC	612TI0314	PLCC-18	.34" (8.64mm) x .23" (5.84mm)	$49.00
	612TI0316	PLCC-20	.27" (6.86mm) x .27" (6.86mm)	$53.50
	612TI0317	PLCC-28	.37" (9.4mm) x .37" (9.4mm)	$53.50
	612TI0492	PLCC-28R	.49" (12.4mm) x .29" (7.4mm)	$52.25
	612TI0352	PLCC-32	.48" (12.2mm) x .38" (9.65mm)	$52.25
	612TI318	PLCC-44, PQFP-84	.57" (14.5mm) X .57" (14.5mm)	$53.50
	612TI0319	PLCC-52, PQFP-100	.67" (17.0mm) X .67" (17.0mm)	$58.00
	612TI0320	PLCC-68,PQFP-132	.86" (21.9mm) X .86" (21.9mm)	$58.00
	612TI321	PLCC-84, PQFP-160	1.06" (26.9 mm) X 1.06" (26.9mm)	$58.00
	612TI405	PLCC-100	1.31" (33.3mm) x 1.31" (33.3mm)	$58.00
	612TI0491	PQFP-304	1.64" (41.7mm) x 1.64" (41.7mm)	$58.00
	612TI417	Removal Tips for Motorola Pager LCCC Packages and Small, Fine-Pitch PQFPs	0.26" (6.6mm) x 0.26" (6.6mm)	$58.50
	612TI419		0.28" (7.11mm) x 0.28"(7.11mm)	$58.50
	612TI421		0.31" (7.87 mm) x 0.31"(7.87mm)	$58.50
	612TI423		0.32" (8.13mm) x 0.32" (8.13mm)	$58.50
	612TI0425		0.40" (9.16mm) x 0.35" (8.89mm)	$58.50
	612TI427		0.52" (13.2mm) x 0.52" (13.2mm)	$58.50
	612TI450	Removal Tips for LCCC Packages and Small, Fine Pitch PQFPs	0.26 (6.6mm) x 0.26 (6.6mm)	$70.50
	612TI452		0.35" (8.89mm) x 0.25" (6.35mm)	$70.50
	612TI454		0.35" (8.89mm) x 0.35" (8.89mm)	$70.50
	612TI455		0.85" (21.6mm) x 0.85" (21.6mm)	$70.50

TP-65 ThermoPik Handpiece

No. 612IR024 ThermoPik $238.00
No. 612PA0081 Heater Assembly $90.00
No. 612MI140 Handle Kit..... $29.50
No. 612PA189 Wardware Kit $4.50

TP-65 ThermoPik Handpiece Tips

Tip	TT No.	Suggested Application	Tip Size AxB (O.D.)	PRICE/Ea.
A B Application Flatpack	612TI0322	FlatPack	0.61" x 0.85"	$43.25
	612TI0328	FlatPack	0.66" x 0.90"	$43.25
	612TI0323	PQFP-68	0.62" x 0.62"	$43.25
	612TI0484	PQFP-64/80	0.62" x 0.62"	$58.50
	612TI0324	PQFP-84	0.72" x 0.72"	$43.25
	612TI0325	PQFP-100	0.82" x 0.82"	$43.25
	612TI0326	PQFP-132	1.02" x 1.02"	$43.25
	612TI456	PQFP-144	1.15" x 1.15"	$58.50
	612TI544	PQFP-208	1.18" x 1.18"	$58.50
	612TI351	PQFP-160	1.22" x 1.22"	$58.50
	612TI0483	PQFP-196	1.43" x 1.43"	$58.50

NOTE: All dimensions are nominal, inside diameter

TP-65 Vacuum Cups

TT No.	Vac Cups	Size	PRICE
612TI382	Small	0.175" (4.4mm) O.D. 5/Pk	$8.50
612TI383	Medium	0.300" (7.6mm) O.D. 5/Pk	$8.50
612TI384	Large	0.500" (12.7mm) O.D. 5/Pk	$8.50
612SO153	Kit	With 3 cups, one each size	$4.00

TJ-70 ThermoJet Handpiece

No. 612IR023 TJ-70 ThermoJet .. $262.50
No. 612IR084 Heater Assembly $97.90
No. 612MI140 Handle Kit..... $29.50
No. 612PA189 Hardware Kit..... $4.50

TJ-70 Tips

SMT Tip	TT No.	Suggested Application	Tip Size A x B	PRICE/Ea.
	612TI366	Small Single Jet		$39.00
	612TI0338	Small Curved Single Jet		$35.25
A	612TI0327	SOT Dual Jet	A= 0.14"(3.56mm)	$43.25
	612TI0330	SOIC Dual Jet	A= 0.17"(4.32mm)	$43.25
	612TI0331	SOICLDual Jet	A= 0.37"(9.40mm)	$43.25
	612TI0365	Flat End	A=.28"(7.11mm) x B=.074"(1.88mm)	$37.00
A B	612TI371	Flat End	A=.24"(6.10mm) x B=.074"(1.88mm)	$39.00

NOTE: TJ-70 fits in the Dual Handpiece Cubby (part #: 612PA044) and/or dual air handpiece cubby

DTP-80 Dual ThermoPik Handpiece

No. 612PT7029 DTP-80 Handpiece $298.00
No. 612IR082 Heater Assembly w/ sensor $78.00
No. 612PA010 Heater Assembly w/o sensor $53.00
No. 612PA0239 Tip & Vac Cup Tool $11.50
No. 612PA0184 Cushion Grip Kit..... $30.50
No. 612PA156 Hinge Kit $13.00

Tip	TT No.	Suggested Application	Tip Size AxB (O.D.)	PRICE/Ea.
	612TI0549	PQFP-100	0.82" x 0.82"	$59.00
	612TI0551	PQFP-132	1.02" x 1.02"	$59.00
	612TI0553	PQFP-144	1.15" x 1.15"	$59.00
	612TI0557	PQFP-208	1.18 x 1.18"	$59.00
	612TI0552	PQFP-160/208	1.22 x 1.22	$59.00
	612TI0558	PQFP-240	1.33" x 1.33"	$59.00
	612TI0554	PQFP-196	1.43" x 1.43"	$59.00
	612TI0593	PQFP-304	1.67" x 1.67"	$59.00
	612TI594	BGA-169	0.88" x 0.88"	$68.25
	612TI0596	BGA-225	1.07" x 1.07"	$68.25

NOTE: All dimensions are nominal, inside diameter

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

PACE

PS-80 High Capacity SMT/Thru-Hole Soldering Iron

No. 612PA691	PS-80 Handpiece	$106.25
No. 612PA509	PS-80 Heater Assembly	$49.00
No. 612PA199	PS-80 Kit (Hand Pc., Tip, Tool Stamp)	$125.00
No. 612PA0444	Retaining Nut	$19.80
No. 612PA505	PS-80 Tip & Tool Stand	$34.25
No. 612PT014	3/16" Wire Brush - 5/Pk.	$15.25
No. 612PT110	Sponge, Tip & Tool Stamp	$9.25

PS-80, IR-70 & SP-2A Tips

These tips are used with the MBT250A/MBT 220A; MBT201A/ MBT 101AST 50/ST 50V-SX /PRC-2000

Tip	TT No.	Description	PRICE
	612TI0357	1/64" Conical, .016"W	$25.00
	612TI363	1/64" Bent Conical; 30°	$25.00
	612PA071	1/128" Conical	$29.90
	612TI535	1/64" Bent Conical	$31.50
	612TI0336	1/32" Conical, .031"W	$25.00
	612TI0359	1/32" Chisel: .025"W	$25.00
	612TI361	1/32" Bent Chisel: 37°	$25.00
	612TI0349	1/16" Microfine Chisel: .025"W	$25.00
	612TI0335	1/16" Chisel; .025"W	$25.00
	612TI414	1/16" High Cap. Chisel; .025"W	$25.00
	612TI499	1/16" Chisel Long Reach	$25.00
	612TI500	1/16" Bent Chisel Long Reach: 30°	$31.50
	612TI360	3/32" Chisel: .025"W	$25.00
	612TI0337	1/8" Chisel: .025"W	$25.00
	612TI358	3/16" Chisel: .031"W	$25.00
	612TI0563	1/16" Single Sided Chisel, Fine Pitch	$31.50
	612PA078	Angled Mini-Wave 0.13"W	$31.50
	612TI0564	Mini-Wave®, Fine Pitch; 0.07"W	$31.50
	612TI0610	Angled Mini Wave 0.09"W	$31.50
	612TI0406	Single-Sided Chisel: 0.13"W	$25.00
	612TI490	Mini-Wave® Standard Chisel: 0.13"W	$31.50

PS-80, IR-70 & SP-2A Tips

Single point tips (with 9/16" shank diameter. Extended reach 0.4" longer)

Tip	TT No.	Description	PRICE
	612TI528	1/64" Conical x 9/16"	$25.00
	612TI527	1/32" Conical x 9/16"	$25.00
	612TI533	1/16" Chisel x 9/16"	$25.00
	612TI529	3/32" Chisel x 9/16"	$25.00
	612TI530	1/8" Chisel x 9/16"	$25.00
	612TI531	3/16" Chisel x 9/16"	$25.00
	612TI532	0.13" Single Chisel x 9/16"	$25.00

PS-80, IR-70 & SP-2A Tips

Thermo drive for maximum heat delivery. 3/16" shank diameter.

Tip	TT No.	Description	PRICE
	612TI516	1/64" Conical x 3/16"	$31.50
	612PA073	1/32" Conical Thermo-Drive	$30.50
	612TI526	1/64" Bent Conical; 30° x 3/16"	$31.50
	612TI524	3/64" Chisel x 3/16"	$31.50
	612TI525	3/64" Bent Chisel; 30° x 3/16"	$31.50
	612TI510	1/16" Chisel x 3/16"	$31.50
	612TI518	1/8" Chisel x 3/16"	$31.50

PS-80, IR-70 & SP-2A Surface Mount Installation Tip

SMD Tips		TT NO.	Description	Per Pack	PRICE
A	A	612TI402	Flat Blade 0.25" (6.6mm)	1/Pk.	$8.75
B	B	612TI305	Flat Blade 0.40" (10.2mm)	1/Pk.	$14.75
C	C	612TI512	Flat Blade 0.3" (7.6mm)	1/Pk.	$58.50
	C	612TI514	Flat Blade 0.4" (10.2mm)	1/Pk.	$58.50
	C	612TI473	Flat Blade 0.5" (12.7mm)	1/Pk.	$58.50
	C	612TI416	Flat Blade 0.7" (17.8mm)	1/Pk.	$58.50
	C	612TI497	Flat Blade 0.8" (20.3mm)	1/Pk.	$58.50
	C	612TI448	Flat Blade 1.0" (25.4mm)	1/Pk.	$58.50
	C	612TI495	Flat Blade 1.25" (31.8mm)	1/Pk.	$58.50
D	D	612TI475	Flat Blade 1.5" (38.1mm)	1/Pk.	$58.50
E	E	612TI477	Flat Blade 2.0" (50.8mm)	1/Pk.	$58.50

PS-80, IR-70 & SP-2A Surface Mount Removal Tips

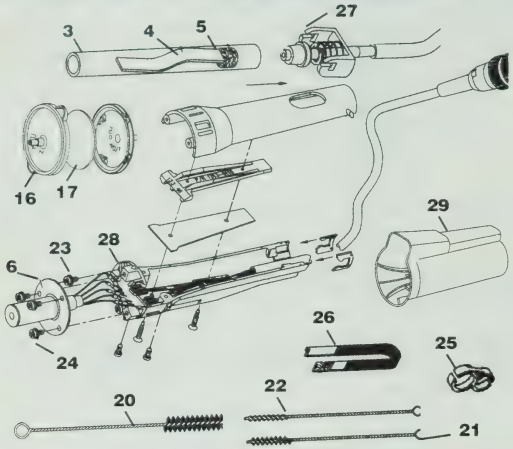
SMT Tip	TT No.	Suggested Application	Tip Size A x B Outside Dimensions	PRICE
A B	612TI390	SOIC-8 (JEDEC)	.199"(5.05mm) x .200"(5.08mm)	$30.00
	612TI438	SOIC-8 (EIAJ)	.190"(4.83mm) x .246"(6.25mm)	$31.00
	612TI0391	SOIC-14(JEDEC)	.199"(5.05mm) x .354"(8.99mm)	$31.25
	612TI0377	SOIC-14 (EIAJ)	.219"(5.56mm) x .360"(9.14mm)	$31.25
	612TI0392	SOIC-16 (JEDEC)	.199"(5.05mm) x .404"(10.2mm)	$31.25
	612TI439	SOIC-16 (EIAJ)	.292"(7.42mm) x .390"(9.91mm)	$31.00
	612TI0393	SOICL-16 (JEDEC)	.369"(9.37mm) x .423"(10.7mm)	$31.25
	612TI0394	SOICL-20 (JEDEC)	.369"(9.37mm) x .522"(13.3mm)	$31.25
	612TI378	SOICL-20 (EIAJ)	.269"(6.83mm) x .510"(13.0mm)	$30.75
	612TI0395	SOICL-24 (JEDEC)	.369"(9.37mm) x .624"(15.8mm)	$31.25
	612TI441	SOICL-24 (EIAJ)	.416"(10.6mm) x .590"(15.0mm)	$31.00
	612TI396	SOICL-28 (JEDEC)	.369"(9.37mm) x .723"(18.4mm)	$31.25
	612TI442	SOICL-28 (EIAJ)	.416"(10.6mm) x .690"(17.5mm)	$31.00
A	612TI0302	A. Chip Component	.093"(2.36mm) x .080"(2.03mm)	$14.75
	612TI303	A. Chip Component	.14"(3.56mm) x .08"(2.03mm)	$14.75
B	612TI304	B. SOT-23	.063"(1.6mm) x .12"(3.05mm)	$14.75
	612TI508	TSOP	.50"(12.7mm) x .32"(8.1mm)	$31.25
	612TI0389	TSOP	.60"(15.2mm) x .25"(6.4mm)	$31.25
	612TI403	TSOP	.76"(19.3mm) x .32"(8.1mm)	$31.25
	612TI0509	TSOP	.76"(19.3mm) x .39"(9.9mm)	$31.25
	612TI534	TSOP	.76"(19.3mm) x .56"(14.2mm)	$31.25
	612TI511	PLCC-20 Socket	.34"(8.6mm) x .34"(8.6mm)	$29.50
	612TI481	PLCC-28 Socket	.45"(11.4mm)x .45"(11.4mm)	$29.50
	612TI0429	PLCC-32 Socket	.55"(14.0mm) x .45"(11.4mm)	$29.50
	612TI0430	PLCC-44 Socket	.65"(16.5mm) x .65"(16.5mm)	$29.50
	612TI0431	PLCC-52 Socket	.75"(19.1mm) x .75"(19.1mm)	$29.50
	612TI0432	PLCC-68 Socket	.95"(24.1mm) x .95"(24.1mm)	$29.50
	612TI482	PLCC-84 Socket	1.15"(29.2mm) x 1.15"(29.2mm)	$29.50
	612TI458	SOJ/SIMMs-18 (4-sided)	30"(7.62mm) x .53"(13.5mm)	$39.75
	612TI460	SOJ/SIMMs-20/24 (2-sided)	30"(7.62mm) x .68"(17.3mm)	$43.25
	612TI0441	PQFP-32	.33"(8.4mm) x .33"(8.4mm)	$43.25
	612TI0445	PQFP-44/56	.46"(11.7mm) x .46"(11.7mm)	$43.25
	612TI446	PQFP-44	.46"(11.7mm) x .50"(12.7mm)	$43.25

Prices in this catalog are effective January 1, 2001. While we attempt to hold prices, we cannot control when our vendors increase prices.

All prices are subject to change without notice.

We reserve the right to correct misprints.

SX-70, SX-65A and SX-55A Spare Parts



Item	TT No.	Pace No.	Description	PRICE
2*	612PA0151	6993-0151	Sodr-X-Tractor Tip Cleaning Kit	$7.75
3	612PT009	1265-0009-P1	Glass Chamber	$6.00
	612PT010	1265-0010-P1	Optional Silicon Rubber Chamber	$4.00
4	612MI033	4010-0033	"S" Baffle	$1.50
5			Sodr-X-Tractor Filter	
	612PT018	1309-0018-P10	Package of 10	$3.00
	612PT850	1309-0018-P50	Package of 50	$12.50
6	612IR080	6010-0080-P1	SX-70 Heater and Seal Assembly	$74.00
7*	612PA098	4010-0098-P1	SX-70 Switch and Cord Assembly Kit	$54.25
8*	612PT074	6010-0074-P1	SX-65A Heater and Seal Assembly	$70.00
9*	612PT081	6993-0134	SX-65A and SX-55A Switch and Cord Assembly Kit	$64.00
10*	612PT033	1213-0033	Front Seal, Heater (SX-70, SX-65A, SX-55A)	$4.75
11*	612PT072	6010-0072-P1	SX-55A Heater and Seal Assembly (24VAC)	$70.00
12*	612PT048	6010-0048-P1	SX-55A 60W Heater and Seal Assembly (24VAC)	$70.00
13*	612PT0287	1348-0547-P10	Set Screws, for SX-70 heaters and older heaters, date coded 1\90 or later	$8.75
15*	612PT020	1309-0020	VisiFilter, Fixed	$7.25
16	612PT028	1309-0028	VisiFilter, Replaceable	$10.75
17			Replaceable VisiFilter Elements	
	612PT027	1309-0027-P10	Package of 10	$9.00
	612PT725	1309-0027-P25	Package of 25	$19.00
	612PT750	1309-0027 P50	Package of 50	$31.50
18*	612PT001	1342-0001-14	Tubing, 66" Length (Translucent Silicon Rubber)	$10.00
19*	612PT0082	4010-0101	Rear Seal Retainer Assy. (SX-40A, SX-55A)	$11.00
20	612PT002	1127-0002-P5	Bristle Brush, 5/Pk	$12.50
21	612PT014	1127-0014-P5	Wire Brush (3/16") 5/Pk	$15.25
22	612SO0006	1127-0006-P5	Wire Brush (1/8") 5/Pk	$16.50
23	612PA534	1405-0534-P3	Dissipator Mounting Screws (Mounts Dissipator to Handle)	$4.00
24	612PT395	1405-0395-P3	Heater Mounting Screws. Mounts Heater to Dissipator	$3.75
25	612PT085	1321-0085-01-P6	Hose Clamps	$5.00
26	612PT206	1100-0206	Tip Tool	$9.00
27	612PT213	1213-0001	Rear Seal (SX-70, SX-65A, SX-55A)	$4.50
28	612PT360	1360-0005	Heat Dissipator (SX-70, SX-65A, SX-55A)	$7.00
29	612PT0042	1346-0065	Thermal Insulative Handpiece Sleeve (Optional)	$5.00

*= Items Not Shown

SX-80 Handpiece SMT/Thru Hole Soldering Irons

PACE

New!

SX-80 Handpiece Only
No. 612PA106 ..... **$236.50**
SX-80 Kit
Includes: SX-80 handpiece, tip, tool stand,tool tip
No. 612PA213 ..... **$275.00**
Flux/Sodr Trap
No. 612PA139 ..... **$12.50** 10/Pk.
No. 612PA0054 ..... **$105.00** 100/Pk.
Visi Filter, Fixed
No. 612PT020 ..... **$7.25**
Visi Filter, Replacements
No. 612PT028 ..... **$10.75**
Replaceable Visi Filter Elements Pkg.
No. 612PT027 ..... **$9.00** 10/Pk.
No. 612PT725 ..... **$19.00** 25/Pk.
No. 612PT750 ..... **$31.50** 50/Pk.
Heater Assembly
No. 612PA107 ..... **$79.00**

SX-70 Desoldering Tips

Tip	TT No.	Description O.D. x I.D.	PK	PRICE
Thermo-Drive	612TI367	.060"(1.52mm) x .030"(0.76mm)	5/Pk	$26.00
	612TI342	.070"(1.78mm) x .040"(1.02mm)	5/Pk	$25.00
	612TI368	.100"(2.54mm) x .060"(1.52mm)	5/Pk	$26.00
	612TI507	.190"(4.8mm) x .090"(2.29mm)	5/Pk	$26.00
Extended Reach	612TI505	0.075"(1.91mm) x .030"(.76mm)	5/Pk	$26.00
	612TI494	0.085"(2.16mm) x .040"(1.02mm)	5/Pk	$26.00
	612TI506	0.106"(2.69mm) x .060"(1.52mm)	5/Pk	$26.00
Long Life Tips	612TI0462	.075"(1.91mm) x .030"(.76mm)	5/Pk	$56.00
	612TI463	.085"(2.16mm) x .040"(1.02mm)	5/Pk	$56.00
	612TI0464	.106"(2.69mm) x .060"(1.52mm)	5/Pk	$56.00
Tip	**TT No.**	**Description O.D. x I.D.**	**PK**	**PRICE**
	612TI369	Thermo-Drive .188"(4.77mm) x.060"(1.52mm)	5/Pk	$26.00
	612TI0465	Long Life .196"(4.98mm) x.060"(1.52mm)	5/Pk	$56.00

Micro-Tips - For SX-65A, 55A, 40A and 70 with Adaptip*

Tip	TT No.	Description O.D. x I.D.	PK	PRICE
1/8" Shank Diameter	612TI253	.030" (0.76mm)	5/Pk	$8.75
	612TI485	.030" (0.76mm) Thin wall	5/Pk	$8.75
	612TI254	.040" (1.02mm)	5/Pk	$8.75
	612TI486	.040" (1.02mm) Thin Wall	5/Pk	$8.75
	612TI255	.060" (1.52mm)	5/Pk	$8.75
1/8" Shank Diameter	612TI261	.030" (0.76mm)	5/Pk	$13.00
	612TI262	.040" (1.02mm)	5/Pk	$13.00
	612TI267	.060" (1.52mm)	5/Pk	$13.00

**NOTE:* *The SX-55A and SX-40A are non-SensaTemp handpieces*

ADAPTIP 612TI083 1/8" shank for microtips **$7.00**

SX PIK- Tips

Tip	TT No.	Description	Tip Size (O.D.)	PRICE Ea
	612TI571	TQFP-28	0.322" (8.2mm) x 0.322" (8.2mm)	$30.75
	612TI572	TQFP-32	0.344" (8.7mm) x 0.344" (8.7mm)	$30.75
	612TI573	TQFP-52	0.472" (12.0mm) x 0.472" (12.0mm)	$30.75
	612TI574	TQFP-40	0.472" (12.0mm) x 0.472" (12.0mm)	$30.75
	612TI575	TQFP-80	0.520" (13.2mm) x 0.520" (13.2mm)	$30.75
	612TI576	TQFP-80/100	0.604" (15.3mm) x 0.604" (15.3mm)	$30.75
	612PA0604	TQFP-144	0.85" (21.6mm) x 0.85" (21.6mm)	$30.75
	612TI0605	TQFP-112	0.87" (22.1mm) X 0.87" (22.1mm)	$30.75
	612TI603	PQFP-80/100	0.66" (16.8mm) x 0.90" (22.9mm)	$30.75
	612TI567	TSOP-28	0.320" (8.1mm) x 0.500" (12.7mm)	$30.75
	612TI566	TSOP-32	0.320" (8.1mm) x 0.760" (19.3mm)	$30.75
	612TI568	TSOP-40	0.390" (9.9mm) x 0.760" (19.3mm)	$30.75
	612TI569	TSOP-56	0.560" (14.2mm) x 0.760" (19.3mm)	$30.75

Supertips - Use with SX-30, 30V, 25, 25V and 20 Only.

(For use with older models)

TT No.	Description O.D. x I.D.	PK	PRICE
612TI214	.030" (.076mm) x .080" (2.03mm)	25/Pk.	$23.00
612TI215	.040" (1.02mm) x .080" (2.03mm)	25/Pk.	$23.00
612TI216	.050" (1.27mm) x .085" (2.16mm)	25/Pk.	$23.00
612TI217	.060" (1.52mm) x .104" (2.64mm)	25/Pk.	$23.00

Arm-Evac 200 (Arms not included)

The Arm-Evac 200 is designed to meet the Fume Extraction needs of rework and repair operations for one or two workstations. **Specifications:** Dimensions: 12"W x 14"D x 16"H; Weight: 32 pounds; Air Flow: 170 cfm one inlet, 100 cfm/inlet with two inlets in use. Standard Filters Include: Pre-filter and combination HEPA/Gas filter, 99.97% efficiency rating; Housing: 18 gauge steel.

No. 612PA1250 (P/N 8889-0205) **$995.00**

Arm-Evac 250 (Arms not included)

The Arm-Evac 250 is ideal for heavy-duty operations that need continuous particle filter monitoring. Filter condition monitoring system self-calibrates through a keyed switch that can be removed for tamper-proof operation. The Arm-Evac 250 also has a three-speed adjustment switch to vary the motor speed. An RS232C communications port for computerized connection is standard. For benchtop-level operation, choose the optional control box (P/N 8884-0250). Optional silencer/mobile cart (P/N 8884-1225) is available. **Specifications:** Dimensions: 12" x 14" x 16"; Weight: 32 pounds; Air Flow: 170 cfm with one inlet, 100 cfm/inlet with two inlets in use. Standard Filters Include: Pre-filter and combo HEPA/Gas filter 99.97% efficiency rating; Housing: 18 gauge steel; Continuous Filter Condition Monitor: LED Display with three-speed adjustment switch. RS232C port.

No. 612PA522 (P/N 8889-0255) **$1325.00**

Pre-Filter, Pkg. of 5
No. 612PA1011 (P/N 8883-0111-P5) ..... **$79.00**/ea.

Combo HEPA/Gas Filter
No. 612PA936 (P/N 8883-0936) **$225.00**
No. 612PA1225 Silencer/Cart (P/N 8885-1225) **$395.00**

LEASING AVAILABLE!

Lab-Evac 150

LEASING AVAILABLE!

The Lab-Evac 150 features an integral front-mounted control box with a multi-function keypad and seven-language LCD display to monitor HEPA and gas filter condition, service interval, on/off control, and a variable pump flow adjustment. Unit self-calibrates and intelligent pump flow compensation automatically increases airflow as filters become clogged. **Specs:** Dimension: 24"W x 25"D x 20"H (Front opening 23Ω"W x 12"H); Weight: 55 pounds; Air Flow: 240 cfm; Housing: 18 gauge steel; Standard Filters Include: High capacity pre-filter, HEPA filter at 99.997% efficiency rating and bonded activated carbon filter. Control Box: Front panel mounted with 32-character, seven-language LCD. RS232C port. (Arms not included)

Lab-Evac 150
No. 612PA105 (P/N 8889-0105) **$2495.00**

Standard Replacement Filters Pkg. of 5:
No. 612PA2010 (P/N 8883-0120-P5) **$115.00**

HEPA Filter
No. 612PA5021 (P/N 8883-0521) **$346.50**

Carbon Filter
No. 612PA975 (P/N 8883-0975) **$168.00**

Arm-Evac 400 2-6 Workstation Fume Extraction System

New!

Arm-Evac 400 Fume Extraction System has an easy to use benchtop microprocessor controller with LCD display and has an interactive 32-character display. Particulate/gas sensing and monitoring to ppm detection, a pump speed adjustable to 18 levels. Audible alarm alerts operator when filter change is necessary, and access code protected to eliminate tampering. Designed with a continuous particle and gas filter monitoring. Self-calibrates to specific arm configuration. Intelligent air flow compensation - motor pump speed increases as filter becomes loaded. **Specs**: Power: 120VAC, 60 Hz 3 Amps: # Inlets: (2) 3" dia.: Free Blowing Flow Rate: 595 m³/h; Maximum Duct Run: 24' per inlet.13.5"W x 14" D x 18" H. (Arms not included)

No. 612PA0405 (8889-0405) **$2095.00**

LEASING AVAILABLE!

Extended Life Pre-Filter/10PK.
No. 612PA140
(8883-0140-P10) **$215.50**

HEPA Filter Cartridge.
No. 612PA945 (8883-0945) .. **$215.50**
Gas Filter Cartridge.
No. 612PA946 (8883-0946) .. **$131.50**

Static-Safe Metal Flex Arm

New!

This Metal Flex Arm is easy to move in and out of position, and is constructed of high quality stainless steel construction. Includes locking adjustable air flow controller and bench mount flange. 3' OAL.
No. 612PA603 (8886-0550) **$210.00**
Static-Safe Fume Scoop for Metal Flex Arm.
No. 612PA430 (8886-0530) **$63.00**
Stainless Steel Static-Safe 4" Nozzle only for Metal Flex Arm.
No. 612PA318 (8886-0318) **$126.00**
Stainless Steel Static-Safe 8" Nozzle for Metal Flex Arm.
No. 612PA328 (8886-0328) **$147.00**
Static Safe Wall-Mounted Articulated Arm.
No. 612PA065 (8886-0654) **$447.00**
Bench Mounting Bracket for 2.5' Articulated Arm.
No. 612PA662 (8886-0662) **$137.50**
Fume hood for omni-directional fume extraction.
No. 612PA931 (8886-0930) **$43.25**
Laminar Flow Endpiece for high volume laminar flow fume extraction.
No. 612PA938 (8886-0938) **$43.25**

Replacement Filters/ Optional Filters/Accessories

Static-Safe Plenum (includes 8' of flex hose)
No. 612AC366 (P/N 8886-0366) **$229.00**

1.75" Diameter Heavy Duty Static-Safe Metal Flex Arm (36" long)
No. 612PA429 (P/N 8886-0429) **$199.50**

Bench Mounting Bracket for 8886-0429
No. 612PA552 (P/N 8886-0552) **$104.00**

General Purpose Filter Cartridge (Combination HEPA/Gas Filter) for hand soldering operations
No. 612AC093 (P/N 8883-0931) **$210.00**

Optional Adhesives Filter Cartridge (4lbs. of gas media) for benchtop adhesive operations
No. 612PA0951(P/N 8883-0951).... **$257.50**

Optional Cleanroom Filter Cartridge (Combo HEPA/Bonded Activated Carbon) for controlled environments
No. 612PA0921 (P/N 8883-0921) .. **$268.00**

Airflow Controller option which installs in the mounting flange for the arm. It will enable the operator to control the air flow.
No. 612PA0509 (P/N 8886-0509) .. **$28.50**

Benchtop Fume Exhauster

The SodrTek benchtop fume exhauster is designed to remove solder flux fumes and other workplace fumes from the operator's breathing zone. Harmful fumes are drawn through an activated carbon impregnated foam filter. The air is filtered, cleaned and returned to the workplace. Features include: high air flow fan (with filter: 1m³/min. - 35CFM); simple filter changeout; easy swivel action; three height adjustments. 115 VAC, 50/60 Hz, 17W.

Benchtop Exhauster
No. 612SO920 (P/N 8884-0920) **$104.00**

Replacement Filter - 5pk
No. 612PA0200 (P/N 8884-2000) ..... **$25.00**/5 Pk.

Turbo Fume Exhausters

The Turbo Fume Exhauster offers convenience and portability at an affordable price. This unit features an activated carbon impregnated foam filter to remove dust and odors. The Turbo's streamline design and high air flow of 75 cfm provides a large collection area. Size: 3.5" H x 21.5" W x 9.5"D

Turbo Exhauster
No. 612PA0721 (P/N 8888-0605) **$420.00**

Replacement filters for 8888-0605
No. 612PT1311 (P/N 8883-1311-P10) ..... **$71.50**/10 Pk.

American Beauty UHPS Soldering by A.T.I

A. UHPS SMD Rework Station

Remove/replace SMDs safely without excessive heat. Grasp, desolder and lift SMDs using one hand! Micro-tweezer handpiece has specially shaped heating elements. After the tweezer elements have a grip, the current can be actuated.

No. 138IR106 ..... **$419.00**

The 138IR106 SMD Rework System consists of:

0-100W UHPS variable voltage power unit, 120V
No. 138IR092 ..... **$229.50**
No. 138IR157 Narrow elements **$16.15**
No. 138IR156 Wide SMD elements **$16.15**
No. 138IR022 Handpiece **$120.70**
Footswitch - Up to 1000W. 6' cord, three-wire plug w/NEMA
138IR038 *(Not Shown)* **$40.80**

B. UHPS Power Unit – 0 to 100W

Economical power source for most thermal wire stripping and resistance-type soldering. Variable, stepless control for extra heat. Wattage: 0 to 100W. Voltage: 0 to 3V. Pilot lighted. Fused. Size: 4"L x 3-3/4"W x 5-1/4"D.

No. 138IR092..... **$229.50**

C. UHPS Power Unit – 0 to 250W

For the 138IR018. Heavy duty ON/OFF switch, pilot light and fuse. Size: 7-1/8"L x 4-1/2"W x 3-11/16"D.

No. 138IR088..... **$301.75**

D. General Purpose Solder Pots

Center-tapped for dross skimmer or extra fixturing; 1-1/2" deep. Heats solder to 400° in 15 min.; 850° F in 25 minutes. Adjustable. maintains contents at 350°-850°F.

No. 138SO012 1 lb. **$245.65**
No. 138SO048 2-1/2 lbs. **$277.95**

Tweezer-Type Handpiece

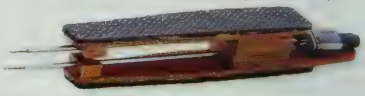
Handpiece for perfect contact-control in soldering micro-miniature setups. Use with 15W to 100W power. Length 5", Wt. 4 oz.

No. 138IR062 ..... **$105.40**
No. 138IR064 Electrodes ..... **$11.90 6/Pk.**

Tweezer-Type Handpiece

Strips wire up to 18 AWG. Adj. jaws. Strips 1/8" to 1-1/2". (Footswitch recommended). Length 4-1/2", Wt. 4 oz.

No. 138IR036 ..... **$115.60**
No. 138IR050 Element up to 30 AWG..... **$8.50/pr.**
No. 138IR066 Element 30 AWG & up .... **$8.50/pr.**



Micro-Soldering/Tweezer

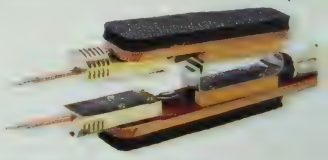
S.S. electrodes, 040", replaceable.

No. 138IR026 ..... **$104.55**
No. 138IR028 Electrodes ..... **$7.65 3/Pk.**

Wire Stripping Handpiece

Strips 24AWG and finer wires. Ultra-lightweight. Positive tweezer action. (Footswitch recommended).

No. 138IR022 ..... **$120.70**
No. 138IR024 Elements ..... **$17.85/pr.**



Heavy-Duty/ Tweezer-Type

Use with variable power unit. Both ends are reversible. Wt: 9 oz.

No. 138IR018 ..... **$192.10**
No. 138IR086 Electrodes **$39.95**

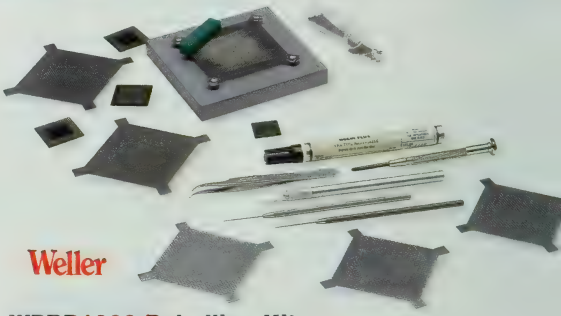
Weller

WLSK1000
Lead Straightening Kit

A convenient and easy-to-use kit to repair bent and deformed leads on gull wing Quad Flat Pack components. Patented precision alignment templates make it easy to manually reshape the leads into the correct position. An assortment of templates for the most commonly used QFPs includes: QFP160, QFP184, QFP232, QFP144, QFP208, QFP240, and QFP304. **Features include**: lab grade, granite surface plate; two lead straightening probes; precision tweezer; vacuum pickup tool; Kapton® tape; rugged storage box; and an instruction manual. (Other sizes and replacement templates available.)

No. 272SO160..... **$499.00**

Weller



WPRB1000 Reballing Kit

A convenient and inexpensive way to replace balls on plastic Ball Grid Array (BGA) components. This kit allows you to renew the solder balls on plastic BGA components without sending them back to the factory. BGAs can be rebuilt using either of two methods: eutectic solder paste or eutectic solder balls. BGA components are completely re-balled to original condition regardless of how many balls are missing. **Features**: (6) screening/positioning templates for the most common BGA pitches; BGA template clamping fixture; spatula and squeegee; probes, precision tweezer, screwdriver and flux pen; vial of 10,000 eutectic solder balls; rugged storage box; and an instruction manual. (Other sizes and replacement templates available.)

No. 272SO161..... **$539.90**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

HEXACON

Mini-Irons, Super-S Irons and Pinpoint Irons
From 15 watts to 60 watts. Tip dia.1/8", 3/16" & 1/4". Fiberglass, cork or hardwood finger grip. Ergonomic hatchet & long reach (4-1/2") options.

No. 432IR050 (23A) 50W 1/4" **$44.95**
No. 432IR054 (24S) 60W 1/4" **$46.00**

7Powerhouse, P Series Irons
40 watts to 100 watts of industrial-duty performance. Tip dia. 1/4" or 5/16" Cork or hardwood finger grip. Extra long reach (6-1/2") & hatchet options.
30H 90W hatchet
No. 432IR035 w/o Tip..... **$61.55**

Fixed Temperature Mini-Stick Iron
This mini iron is designed for printed wiring boards with standard component densities. SMT, Through-hole technologies, and cable assemblies. Tip Diameter: 1/8". **(USA)** *New!*

No. 432SO211 15W **$38.20**
No. 432SO231 20W..... **$38.20**
No. 432SO221 25W **$38.20**

Vara-Temp Soldering Stations MF15

Versatile, economical stations with controlled temperature for repeated connections and precise fingertip control on small terminals and microcircuits. Range of fine point sleeve and SMD tips. Uses slim, lightweight MS10 type ceramic element handpiece with controller for 350°F to 900°F (Vara-Temp, MV15) or selectable at 600°F, 700°F or 800°F (Select-O-Temp, MF20). No ESD hazard. Posi-Ground construction gives <2mV leakage.

No. 432SO1500 350°F-900°F **$112.45**

Therm-O-Trac High Performance Stations

The Therm-O-Trac Series sets the standard for reliability and temperature stability. The range offers new, easy to read faceplates and dual Celsius/Fahrenheit markings. An in-tip thermistor sensor insures ±10°F control. 100 watts of available soldering power gives a wide dynamic range. Select-O-Trac models offer temperature selection at calibrated set-points. Power Boost and Magnum stations extend application range into multi-layer, heavy ground plane and robotic use. Therm-O-Tracs are Mil Spec Compliant.

No. 432IR012 (1002) 525°F-850°, Hi-Power **$251.60**
No. 432SO006 (1006B) 650°F-750°F-850°F Hi-Power **$284.10**
No. 432IR1002 (1002A) 350°F-850°F Std. Power **$279.90**
No. 432IR2300 (2300) 525°F-850°F Extra Hi-Power Heavy-Duty **$328.50**

Tips For Stick Irons

Tip	TT No.	Tip #	Description	PRICE
	432TI300	HT331X	1/64" conical, 1/8"L	$5.65
	432TI190	HT190X	1/8" semi-chisel, 3/16"L	$6.00
	432TI720	HT207X	3/32" semi-chisel, 3/16"L	$6.00
	432TI242	HT281X	1/32" conical, 3/16"L	$6.00
	432TI313	HT313X	3/16" semi-chisel, 1/4"L	$6.25
	432TI002	HT202X	3/16" semi-chisel, 1/4"L	$6.25
	432TI417	HT417X	1/8" semi-chisel, 1/4"L	$6.25

Longlife Tips For Vara-Temp

Tip	TT No.	Tip #	Description	PRICE
	432TI880	HT880X	1/16" semi-chisel, 7/32"L	$8.40
	432TI882	HT882X	1/64" conical, 7/32"L	$8.40
	432TI885	HT885X	1/16" semi-chisel, 7/32"L	$8.40

Longlife Tips For Thermo-O-Trac

Tip	TT No.	Tip #	Description	PRICE
	432TI652	J101X	1/8" chisel, 9/16"L	$6.30
	432TI654	J102X	3/16" chisel, 9/16"L	$6.30
	432TI656	J201X	1/16" chisel, 5/8"L	$6.30
	432TI658	J202X	3/32" chisel, 5/8"L	$6.30
	432TI660	J203X	1/16" side chisel, 5/8"L	$6.30
	432TI662	J204X	3/32" side chisel, 5/8"L	$6.30
	432TI664	J205X	1/8" side chisel, 5/8"L	$6.30
	432TI666	J206X	1/16" micro chisel, 5/8"L	$6.30
	432TI668	J301X	1/16" single side chisel, 3/4"L	$6.30
	432TI670	J302X	1/8" single side chisel, 3/4"L	$8.55
	432TI672	J903X	1/32" conical, 11/16"L	$6.30
	432TI905	J905X	1/64" conical, 5/8"L	$6.30
	432TI911	J911X	1/32" side chisel conical, 5/8"L	$7.00
	432TI686	J912X	1/32" single side chisel, 5/8"L	$7.00
	432TI688	J915X	1/32" bent conical, 11/16"L	$8.45
	432TI694	J918X	1/32" micro fine chisel, 5/8"L	$7.00

HEXACON

Phenix™ Ultra

This microprocessor-controlled soldering iron provides immediate heat recovery for fast, effective soldering. The exclusive HCP circuitry, located in the finger grip, provides the supervisory/monitoring control necessary to ensure constant, fixed tip temperature without the need for a separate controller unit. Phenix™ is available in 600°F, 700°F and 800°F fixed temperature models. All models are pre-calibrated and will perform to stated specifications out-of-the-box.

No. 432SO600 600° **$79.95**
No. 432SO700 700° **$79.95**
No. 432SO008 800° **$79.95**

Soldering Iron Stand
No. 432AC892 ..... **$32.50**

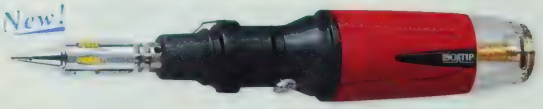
PHENIX AND HTC SERIES TIPS

Tip	TT No.	Tip #	Description	Pt. Size x Reach	PRICE
	432TI030	CT300	SMD Adapter	7/32" x 7/16"	$7.90
	432TI301	CT301X	Full Chisel	7/32" x 9/16"	$7.35
	432TI302	CT302X	Semi Chisel	1/8" x 9/16"	$7.35
	432TI303	CT303X	Semi Chisel	3/32" x 9/16"	$7.35
	432TI304	CT304X	Semi Chisel	1/16" x 9/16"	$7.35
	432TI305	CT305X	Conical Bevel 45°	1/8" x 9/16"	$7.35
	432TI306	CT306X	Conical Bevel 45°	1/16" x 9/16"	$7.35
	432TI307	CT307X	Conical Chisel	1/32" x 9/16"	$7.35
	432TI311	CT308X	Conical Sharp	1/32" x 7/8"	$7.35
	432TI309	CT309X	Full Chisel	7/32" x 1"	$7.35
	432TI310	CT310X	Conical Sharp	1/64" x 7/8"	$7.35
	432TI131	CT311X	Semi Chisel	1/16" x 1"	$7.35
	432TI3120	CT312X	Semi Chisel	3/32" x 1"	$7.35
	432TI133	CT313X	Conical Bevel	3/32" x 9/16"	$7.35

(Call– Other Tip Sizes Available)

Soldering/Desoldering

New!



Solder Pro 50 Cordless Soldering Iron

This cordless soldering iron can be adapted for use as a torch, hot knife and heat tool. Ready to use in 10 seconds, and powered by butane fuel so there is no electrical current to leak on your sensitive circuits. **Includes**: Soldering Iron; 1.mm conical tip; protective cap with igniter. **Specs**: 30 minute run time; soldering temperature: 410°F - 750°F. (Fuel not included.) 6" OAL.

No. 858SO797 ..... **$24.65**

New!

EZ Change Cordless Soldering Iron

This cordless soldering iron gives you complete portability. Allows up to 125 electronic joints per charge, and it lets you recharge batteries in a standard Ni-Cad charger. Has a tip protector and compartment for storing extra tips. **Includes**: EZ Change iron; Fine Tip; (2) 1400mAh (size C) rechargeable nickel cadmium batteries; tip protector. ***One-Year Warranty.*** 10-3/4" OAL. **(USA)**

No. 858SO767 ..... **$30.50**

Tips

No. 858TI072 Regular Tip #5 (5/32") **$5.45**
No. 858TI076 Fine Tip #2 (1/16") **$5.45**
No. 858TI078 Heavy Duty Tip #6, High Wattage (1/16") **$5.45**
No. 858TI566 Micro Soldering Tip #2 (1/16") **$5.55**
No. 858TI757 Beveled Tip #2 (1/16") **$4.70**
No. 858TI577 Chisel Tip #5 (5/32") **$5.55**

ISO-Tip "60" Cordless Soldering Iron

Fully charges in one hour. Using charge lever on side of iron automatically changes to an energy-saving, trickle-charging rate when battery becomes full. Solders up to 125 electronic joints. Between usage returning to stand iron recovers rapidly. **Includes:** iron, charging stand, battery, chisel tip, fine tip and instructions. **(USA)**

No. 858IR054 ..... **$67.90**

ISO-Tip Power Pro Cordless Soldering Iron

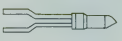
High-capacity battery provides up to 30 minutes of continuous soldering. Solders 200+ electronic joints. Fully recharges in four hours. **Includes:** iron, charging stand, battery, hi-efficiency fine tip, hi-efficiency chisel tip. **(USA)**

No. 858IR904 ..... **$67.90**

Hi-Efficiency Replacement Tips.

Heats up faster and gives you 20% more soldering time per charge than Iso-tip standard tips.

Regular Tip
No. 858TI535 (7535-100) 5/32" **$5.55**



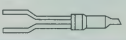
Fine Tip
No. 858TI545 (7545-100) 1/16" **$5.55**

Heavy-Duty Tip
No. 858TI546 (7546-100) 3/16" **$5.55**

Micro Soldering Tip
No. 858TI566 (7566-100) 1/64" **$5.55**

Chisel Tip
No. 858TI577 (7577-100) 5/32" **$5.55**

Beveled Tip
No. 858TI579 (7579-100) 3/32" **$5.55**



ANTEX Soldering

690-SD Multi-Program Station

The 690-SD is a multi-program, digital read-out, static dissipative, temperature-controlled soldering station. This station features a temperature range from 65° to 450°C and repeatability to 2°C. Use just three buttons for program selection and settings. Functions include: two memory settings; °C or °F read-out; dial-in tip selector for accurate offset; lockable, with PIN security; and basic self-diagnostics. Uses I80 Series Tips. *US Mil Std. 2000A.*

No. 596SO690 ..... **$549.40**
No. 596SO050 Replacement Solder Iron **$133.00**

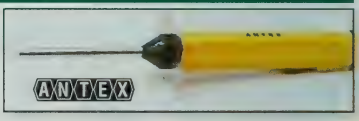
Tip	TT No.	Tip Dia.	Plating	Shape	PRICE
	596TI184	<.025"	Bare Copper	Fine Needle	$5.90
	596TI186	3/64"	Iron	Chisel	$4.10
	596TI0186	3/64"	Iron	Spade	$4.10
	596TI180	3/32"	Iron	Spade	$4.10

Miniature Iron Stand

Spring holder provides sufficient airflow to rapidly dissipate heat. Non-charring plastic sponge tray.

No. 596SO010 ..... **$15.95**

Miniature Soldering Irons Model G/3U



These heavy-duty, hi-wattage miniature 18W soldering irons put out as much power as a 30W iron. 18W/115VAC. Tip Temp. 700° to 750°F. Heating element shaft dia. 0.135". *(Tips not supplied.)*

No. 596IR022 ..... **$25.80**

Model C/3U

Ideal for precision electronic prototype, rework and assembly operations where less heat is required. 15W/115VAC. Tip Temp. 665° to 700°F. Heating element shaft dia. 0.135". *(Tips not supplied.)*

No. 596IR014 ..... **$25.20**

Model M/3U

12W, 110/120V Three prong molded, grounded plug. Temp. 600°F to 650°F.

No. 596PR033 ..... **$25.00**

140 TIPS For G/3U, M/3U, C/3U

Maximum strength at high temperatures; maximum heat conductivity and recovery times.

Tip	TT No.	Tip Dia.	Plating	Shape	PRICE
	596TI062	3/64"	Iron	Spade	$3.70
	596TI066	3/64"	Nickel	Spade	$2.70
	596TI060	3/64"	Iron	Chisel	$3.70
	596TI064	3/64"	Nickel	Chisel	$2.70
	596TI046	1/16"	Iron	Spade	$3.70
	596TI036	1/16"	Nickel	Spade	$2.70
	596IR010	1/16"	Iron	Chisel	$3.70
	596TI052	5/64"	Iron	Chisel	$3.70
	596TI076	.012"	Iron	Needle	$4.70
	596TI078	.012"	Unplated	Needle	$2.90
	596TI003	3/32"	Iron	Spade	$3.70
	596TI012	3/32"	Nickel	Spade	$2.70
	596TI010	3/32"	Iron	Chisel	$3.70
	596TI002	3/32"	Nickel	Chisel	$2.70

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Master Soldering Tools

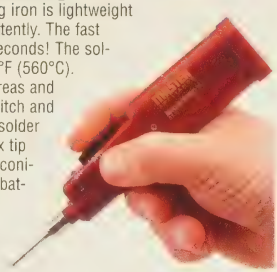
MASTER™

Micropro® Portable Soldering Iron

New!

This battery powered, portable soldering iron is lightweight and can solder up to 160 joints intermittently. The fast start-up reaches 361°F (183°C) in 10 seconds! The solder tip temperature reaches up to 1040°F (560°C). The thin profile reaches into confined areas and the removable safety cap locks slide switch and protects tip when in use. **Specs**: Appx. solder tip temp. 6W (max) 932°F (500°C); max tip temp. appx. 1040°F (560°C). **Includes:** conical tip; chisel tip; tip wrench; 3 alkaline batteries. Cap. (Japan)

One-Year Warranty



Portable Soldering Iron

No. 542SO300 ..... **$78.55**

Conical Tips

No. 542TI100 .5mm..... **$16.85**
No. 542TI104 1mm **$16.85**
No. 542TI107 1.5mm..... **$16.85**

Bevel Tips

No. 542TI110 .8mm..... **$16.85**
No. 542TI111 1.3mm..... **$16.85**
No. 542TI113 1.8mm..... **$16.85**

Spade Tip

No. 542TI114 .8mm **$16.85**

Chisel Tips

No. 542TI115 1.0mm **$16.85**
No. 542TI116 1.5mm **$16.85**

Accessories

No. 542AC100 Tip Remover..... **$1.15**
No. 542AC101 Protective Cap.... **$5.70**
No. 542AC102 1.5V AA Alkaline Batteries, Pkg. of 4 ..... **$3.80**

Ultratorch Butane Heat Tool STD UT-100SI

Cordless Ultratorch is a self-igniting, combination portable soldering iron and flameless heat tool. Perfect for in-field services and maintenance for production areas where accessibility may be limited. Piezoelectric "push button" system–no matches or lighters necessary. Completely cordless–no E.M.I. Lightweight for fatigue-free use. Variable temperature control. Streamlined design–allows easy accessibility in restricted work areas. Comes complete with a soldering and heat tip, spanner wrench, open-end wrench, heat shrink attachment and protective cap. Heating temperatures: 200-500°C (392-932°F) when soldering, 700°C (1292°F) when shrinking. *DOES NOT OPERATE IN TORCH MODE! (Butane Not Included)* (Malaysia)

No. 542PR102..... **$114.55**

Ultratorch Heat Tool Mini UT-50

Cordless, combination portable soldering iron, butane torch and flameless heat tool. Fits in your pocket for absolute portability. Perfect for in-field service & maintenance repair where instant heat is required. Each Mini UT-50 comes standard with a protective cap and soldering tip. Heating temperatures: 200-450°C (392-842°F) when soldering, 430°C (806°F) when heat shrinking, 1260°C (2372°F) when used as a torch, 1mm tip. *(Butane not included.)* (Malaysia)

No. 542PR104 ..... **$93.10**

Weller Soldering Tools

Weller *portasol*

Super Pro Portasol Kit

The patented soldering tool has a catalytic converter that provides a powerful, yet safe, flameless combustion. Easily interchangeable screw-in tips and accessories. Safety cut-off switch when cap is replaced. Refills with standard butane lighter fuel. Fast, flint-sparked ignition in high-strength plastic cap. (Butane Not Supplied). (Malaysia)

No. 272IR799 ..... **$76.50**

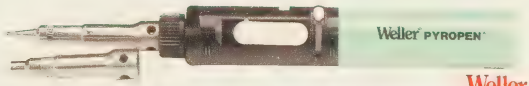
Soldering Torch Refillable 0-35W

Includes solder tip. 35W adj. to 700°F.

No. 272IR006 Butane Tool **$25.20**

Weller Portasol Soldering Tips Temp. Range up to 850°F (450°C).

1/32" Single flat
No. 272TI011 (PSI 1) 1.0mm.. **$10.30**
3/32" Single flat
No. 272TI102 (PSI-2) 2.4mm.. **$10.30**
1/8" Single flat
No. 272TI031 (PSI-3) 3.2mm.. **$10.30**
3/16" Single flat
No. 272TI104 (PSI-4) 4.8mm.. **$10.30**
1/32" Double flat
No. 272TI005 (PSI-5) 1.0mm **$10.30**
3/32" Double flat
No. 272TI015 (PSI-6) 2.4mm.. **$10.30**
1/8" Double flat
No. 272TI710 (PSI-7) 3.2mm.. **$10.30**
3/16" Double flat
No. 272TI108 (PSI-8) 4.8mm.. **$10.30**
Hot Blower Tip
No. 272TI019 (PSI-9) **$10.30**
Hot Knife Tip
No. 272TI100 (PSI-10) **$10.30**



Weller

Pyropen™ Junior

The Pyropen Junior is a self-igniting butane gas powered soldering iron and hot air tool. Has temperature control from 15 watts to 60 watts. **Features**: self-ignition finger switch; protective cap to keep hot tip from contact with surfaces. **Specs**: Heat-up time: 30 seconds; Fuel tank capacity: approximately 1 hour. 8.25".OAL. (Malaysia)

No. 272PR600 Pyropen Junior **$58.65**
No. 272TI630 Tip, Taper needle, 1.0mm **$13.30**
No. 272TI631 Tip, Screwdriver, 2.4mm **$13.30**
No. 272TI632 Tip, Chisel, 2.0mm **$13.30**
No. 272TI127 Tip, Screwdriver, 5.0mm **$13.30**
No. 272TI634 Nozzle, Hot Air, 1.5mm **$15.95**
No. 272TI635 Nozzle, Hot Air, 4.7mm **$15.95**
No. 272TI636 Tip, Hot Knife..... **$15.95**
No. 272SO107 Part, Ejector **$26.10**

Soldering Guns

A. Soldering Gun

Solid state-complete unit plus extra power head gives both 600° and 700° capability. Fast, temperature-controlled. Won't damage sensitive components. Lightweight, 7 oz. Double coated tips. Slim, long reach barrel. Three-wire cord. 120V, 700°F, 150W. Tip 3/16" Chisel Point. **(USA)**

No. 272IR194 ..... **$69.80**

Replacement & Extra Power Heads for No. 272IR194

No. 272IR050 700° **$46.45**
No. 272IR016 600° **$46.45**

B. Heavy-Duty Soldering Gun

Highest output. Trigger selects heats. Balanced pistol grip. Twin lights. Heavy gauge, high efficiency copper tips. Includes "Soldering Hints" booklet. 120V, 60Hz. *AC Only. 200/260 watts.* **(USA)**

No. 272IR078 Soldering Gun Only **$56.60**
No. 272IR080 Soldering Gun Kit..... **$60.85**

C. Universal Soldering Gun Kit - 8 pc

Kit includes dual heat soldering gun, three copper soldering tips, flux brush, soldering aid tool, 60/40 rosin-core solder and carrying case. *UL listed. 100/140 watts.* **(USA)**

No. 272IR058..... **$44.85**

MASTER

A. Master® Proheat® Varitemp

Infinitely variable temperature control from ambient to 1050°F/565°C. Solid-state controller. Tamper-proof temperature "lock-in" feature. 120V., 12A. 1500W, 15 CFM.

No. 542PR120 ..... $139.40

Master® Preheat® Heat Gun

Two settings of 570°F and 1050°F. Ergonomic handle. Built in hand guard. Rugged, enclosed, ceramic, heating element. Hanging loop for hands-free operation. Three-position rocker switch-no cool down required. 3-wire cord set. 120V, 6A-750E, and 12A-1500W.

No. 542PR100 ..... $79.65

Proheat® Attachments *(220V: 3/6A: 750W/1300W Available)*

Reducer Attachment	**Spreader Attachment**	**Connector Reducer**
No. 542AC379 .. $19.55	**No. 542AC016 .. $18.30**	**No. 542AC027 .. $33.00**
Shrink Attachment	**Nozzle Shield**	**Bench Stand**
No. 542AC017 .. $11.80	**No. 542AC026 .. $10.85**	**No. 542AC216 .. $10.75**

B. Master® Heat Gun

The perfect flameless, electric heat tool for hundreds of electronic/industrial uses: Shrink tubing; Activate adhesives; Melt solder preforms; Heat shrink packaging; Soften floor covering; Strip paint and varnish; Desolder; Defrost freezer coils and Repair and install vinyl. **Features:** Heavy-Duty Industrial, Adj Base. Models with temps up to 1000°F/538°C *(See below)*. Adjustable air intake controls output temperature and air volume. Reinforced ceramic heating element. Rugged, die-cast aluminum housing with externally replaceable carbon brushes. Three-wire oil resistant cord set.

Temp: 200-300°F/93°-149°C/600W		**Temp: 500-750°F/260°-399°C/1680W**	
No. 542PR192	120V, 5A **$104.00**	**No. 542PR200**	120V., 14A..... **$104.00**
No. 542PR194	230V, 3A **$104.55**	**No. 542PR202**	230V, 7A..... **$104.55**
Temp: 300-500°F/149°-260°C/1440W		**Temp:750°-1000°F/399°-538°C/1740W**	
No. 542PR196	120V, 12A **$104.00**	**No. 542PR204***	120V, 14.5A **$104.00**
No. 542PR198	230V, 6A **$104.55**	**No. 542PR206***	220/240V, 9A **$104.55**

** DO NOT USE 542PR214 WITH THIS UNIT!*

Master® Heat Gun Attachments

1/4" Pinpoint Attachment	**Shrink Tubing up to 3/4" O.D**
No. 542PR214 * **$12.35**	**No. 542PR142** **$12.35**
Solder Sleeve Attachment	**Shrink Tubing from 3/4" to 2" O.D.**
No. 542PR042 ..... **$28.20**	**No. 542PR144** **$15.85**

C. Master-Mite™ Heat Gun

High-impact "Noryl®" housing. Brushless, shaded pole, continuous-duty motor. Three-wire grounded cord set. Slip-on heat-shrink deflector attachment and 650°F element standard.120V; 4.5A; 475W; 3.8 CFM.

No. 542PR012 ..... $76.85

Heat Gun with 650°F element & deflector attachment; 220V; 50/60Hz; 2A; Wt. 2.2 lbs.

No. 542PR014 ..... $76.85

Master-MiteTM Attachments

Deflector Attachment. Slide-on deflector encapsules shrink tubing with even heat distribution.	1/4" Pinpoint Attachment, concentrates heat exactly where you want it.
No. 542PR058 ..... **$5.45**	**No. 542PR060** **$12.55**
Solder Sleeve Attachment	Bench Stand
No. 542PR040 ..... **$23.15**	**No. 542PR082** **$8.10**

Snap-in 120V Replacement Elements

Temp: 500°F/260°C; Watts: 340; Color: Blue.	Temp: 800°F/427°C; Watts: 525; Color: Black.
No. 542PR020 ..... **$24.30**	**No. 542PR024** **$24.30**
Temp: 650°F/343°C; Watts: 475; Color: Silver.	
No. 542PR022 ..... **$24.30**	

D. Ecoheat™

Your economical, low-cost, entry-level, multi-use heat gun is perfect for industrial and commercial applications. Use to activate adhesives, bend plastics, loosen rusted fittings, melt solder, shrink plastics, tubing and more. **Features:** two heat settings 500° & 1,000°; built-in hand guard; 3-wire grounded cordset; and built-in stand. 500° & 1000°F (260° & 399°C), 120V, 10A, 1200W, 8 CFM, 1020 FPM.

No. 542PR351..... $39.65

Master® Microtorches Fuel Cell included. *(Butane not included.)*

E. Master® Microtorch Model MT-75

This butane powered microtorch has an adjustable flame knob that controls gas flow, producing a long blue adjustable high temperature flame of 2500°F/1300°C. Air flow control sleeve provides additional flame control and broad yellow flame capability. Quick starting self-igniting piezo electric button is lockable for safety. Has a built-in, refillable metal fuel tank with large fuel capacity, up to 220 minutes on a full charge.

No. 542PR075 ..... $53.90

F. Master® Microtorch Model MT-10

Palm-size torch with 20-minute-run-time fuel tank, flame adjustable by a radiator. Safetylock insures the switch is not turned on whennot in use. Flame adjustable by a regulator.

No. 542PR010..... $18.00

G. Master® Microtorch Model MT-50

Hand held or bench top with two-hour-run-time fuel tank. Shipped without fuel. Flame adjustable by a regulator. Safety lock insures the switch is not turned on when not in use.

No. 542PR050..... $29.00

H. Microtorch MT-5

This pocket-sized butane powered microtorch is easy to start and eliminates the need for lighters and matches. Has a self adjusting flame height for low and high temperatures up to 25000°F/1300°C blue flame. This refillable microtorch has a wind resistant flame for outdoor use, and a water resistant ignition. Includes a built-in-stand and fuel reservoir window.

No. 542PR715 ..... $20.75

A. Ideal Heat Guns

Lightweight, well balanced, for hand or bench use. Long-life heating elements. Color-coded nozzles, temperature range from 600° to 1250°F.

No. 462PR010 ..... **$109.00**

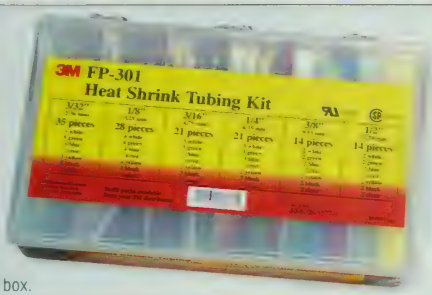
No. 462PR014 (Gold Nozzle) 800°-1000°F, 120V; 60Hz; 4.5A **$18.20**
No. 462PR921 (Green Nozzle) 600°-800°F, 1110 BTU, 325W **$18.20**
No. 462AC923 (Red Nozzle) 1000°-1250°F, 1790 BTU, 525W..... **$18.20**

B. Ideal ESD Heat Gun

Will not build-up a static charge on the heat gun shell. Unique "cool" nozzle design prevents serious burns if accidental contact is made with the nozzle. ESD non-metallic shell reduces weight. Super quiet induction motor operates whisper quiet. Easy nozzle replacement with a variety of temperature selections. Visible "hot" light switch lets operator know when the heat is on. Gold Nozzle Standard (800°-1000°F).

No. 462PR113..... **$137.50**

3M Tubing Kit



Versatile assortment of flexible polyolefin heat shrink tubing for a variety of electronic and electrical applications. Each kit is packaged in a plastic box.

Color kit contains 133 pieces of six inch lengths, in six diameters from 3/32" to 1/2", and seven colors.
No. 105PR577 (FP-301 Kit Asst)..... **$62.20**
Black kit contains 102 pieces of six inch tubing, in six sizes ranging from 3/16" to 1 inch.
No. 105PR317 (FP-301 Kit BLK) **$62.20**

3M General Purpose Tubing

Flexible polyolefin tubing used as a shrink-fit (2:1 ratio) electrical insulation over cable splices and terminations, as well as for lightweight wire harness covering, wire marking, wire bundling, component packaging, and fire resistant covering. Meets MIL-I-23053/5. CSA Certified at 600 volts @ 125°C.

Black Tubing Kit
No. 105PR743 ..... **$21.99**
Color Assorted Tubing Kit
No. 105PR852 ..... **$8.10**

Polyolefin Heat Shrinkable Tubing

Packed in convenient 96" spools. Just apply heat with a hot air gun. The expanded tubing shrinks at 125°C temp. Withstands 600 volts. UL recognized.

TT No.	Expanded ID	Color Code	Shrinks to (approx.)	PRICE
356PR114	1/8"	Red	1:16	$6.30
356PR116	1/4"	Blue	1:8	$7.00
356PR117	5/16"	Yellow	5/32"	$7.25

Weller Solder

This complete line of 60/40 solder is non-corrosive/non-conductive and is approved for commercial and military applications. Conforms to QQ-S-571type WRMAP-3 specs.

No.	Dia. Gauge	Alloy Type	Pkg.	PRICE
272SO023	.025"23	Sn60	1 lbs	$13.10
272SO021	.032"21	Sn60	1 lbs	$12.85

Weller

New!

Conductive Heat Shrink Connectors

TECHNI-STAT

These EMC shrinkMate connectors use Mil Standard R-46846 polyolefin tubing and a highly conductive Polymer Thick Film silver inner diameter coating. The coating shrinks with a heat gun, oven, or any other conventional heat source. EMC shrinkMate connectors are entirely coated on their inner surface providing not only electrical continuity, but EMI, RFI, and ESD shielding around the joints being connected. Kit Includes: Sizes: (12) 3/8", (12) 1/2", (9) 3/4", (5) 1-1/4", and (4) 1-1/2"; Conductivity: resistance is approximately 1Ω/in. Outgassing: Passing *Meets ASTM E-595, NASA, SPR-0022A and ESA PSS-01-702: High Frequency shielding needs: Commercial: 30-60 dB; Military: 60-90 dB.* **(USA)**

No. 758ST334 ..... **$99.00**

Thin Wall Heat Shrink Tubing - 86 pc

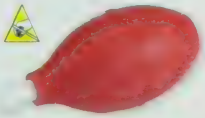
Cut length assortment includes: 36 black (I.D.: 0.187" Exp/.073" Rec.); 24white (I.D.: .250" Exp/.125" Rec.); 12 red (I.D.: .325" Exp/.187"Rec.); six black (I.D.: 5 Exp/.25"Rec.); four white (I.D.: 75" Exp/.375"Rec.); and four red(I.D.: 1.0' Exp/.50" Rec.). All 4" OAL.

No. 104PR8658 ..... **$25.15**

Solder Sucker

This ESD-safe desoldering bulb with anti-static T.F.E. tiplet is a handy way to remove solder from boards. May be used with soldering iron. **(USA)**

No. 272SO016..... ..... **$9.10**

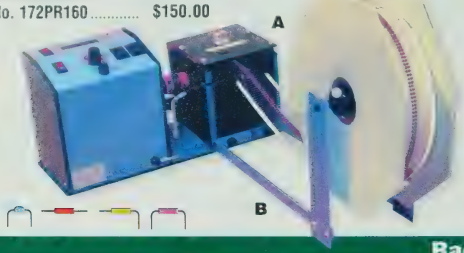


Axial Components

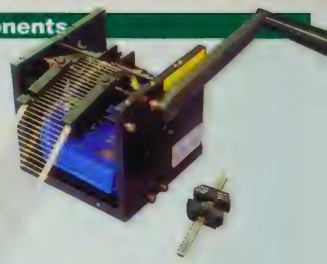
AF-1 Automated Taped Axial Component Trimmer

Combines the model F-1 with drive and counter (model DAC) and reel holder (model RH-1) for processing speed of up to 46,800 cph.

A. No. 172PR011(F-1).... $2495.00
Reel Holder RH-1
B. No. 172PR160..... $150.00



F-1 Taped Axial Trimmer/Former

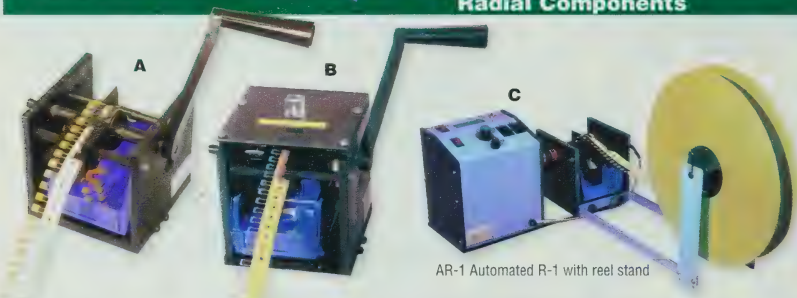


The F-1 cuts and bends to a right angle. Cut lengths are independently adjustable. Leads are overbent to compensate for lead springback. Adjustment merely requires loosening of two screws. High-speed output of 26 components per turn. Comes complete with bench clamp and easy-to-use set up gauge. Tooling available for stand ups and cut-only as well as heavy leads, .030" to .050" (.76mm to 1.27mm).

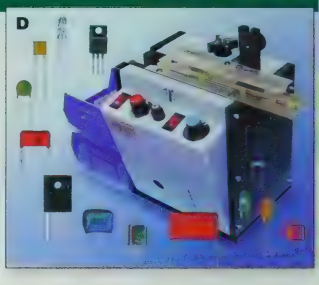
No. 172PR001..... $995.00

Call for a Demo in your area!

Radial Components



AR-1 Automated R-1 with reel stand



A. AR-1 Automated Taped Radial Component Trimmer

Combines the model R-1 with drive and counter (model DAC) and reel holder (model RH-1) for processing speed of up to 72,000 cph.

No. 172PR150 ..... $2495.00

B. R-1 Taped Radial Component Trimmer

Exclusive tapered blade design produces clean cut without stress to component body. This high speed processor cuts 12 components per revolution. Dual cutting edges for twice the blade life. Easily adjustable cut lengths in less than one minute.

No. 172PR111 ..... $995.00

C. KK-R Kinking Taped Radial Trimmer/Former for Stand-Off/Snap-Ins

The only rotary processor of its type, the KK-R will cut and form or form only. Easy adjustments for exact trim length and height of opposing dimple bends. Reversible cutting blades for twice the wear. In non-cut mode, processed components will remain on tape and can be re-reeled. Speed of 12 components per revolution. No dies required.

Radial Trimmer/Kinker:
No. 172PR156..... $2495.00
Radial Component Trimmer:
No. 172PR152 ..... $995.00
Automated R-1:
No. 172PR150..... $2495.00
Automated KK-R:
No. 172PR158 ..... $3995.00
Reel Holder RH-1:
No. 172PR160 ..... $150.00

LEASING AVAILABLE!

D. RTV Loose Radial Component Trimmer

Trims virtually all loose in-line radial components with its unique rotary cutting system. Lead length gauge with adjustment knob allows changeovers in seconds. Designed to perform reliably for many years. Widest range of loose radial components: various Caps, TO-92s, LEDs, SIPs, TO-220s, etc.

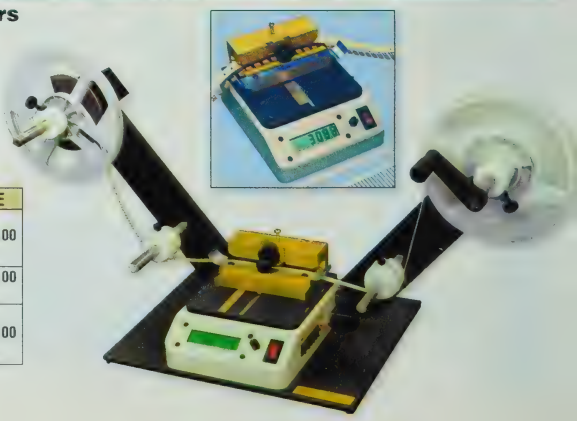
No. 172PR162 ..... $2395.00

Component Counters

Taped Axial, Radial & SMT Component Counters

The **Gold-Count™** with its auto forward/reverse sensing makes component counting foolproof. Features include state-of-the-art photoelectric sensor, AC or convenient battery operation with backup charger (on removable counter unit), divide-by to permit exact count of virtually all types and sizes of components, presettable count, and a push-button marker for taped components. The motorized model (GC-40) has a variable forward or reverse speed control. Changeovers from SMD to axial or to radial components are quick and easy. The counter is compact, heavy-duty, and lifts easily off its reel stand for portability.

TT No.	Model	Description	Features	PRICE
172PR114	GC-12	Standard Component Counter w/GC-RS	• 4 digit LCD Display • SMD, axial, radial compatibility • Divide by feature • AC only	$1995.00
172PR116	GC-30	Deluxe Component Counter w/GC-RS	Presetable count with audible beep • SMD, axial, radial compatibility • Divide by feature • AC or battery operation with integral changer • 5 digit LCD	$2395.00
172PR118	GC-40	Standard Component Counter w/GC-RS		$3995.00

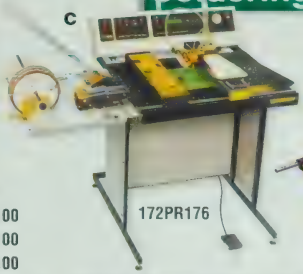


Manual Pick n' Place

The **Gold-Place™** series is a manual pick & place and dispense system. Its patented hand rest and arm assembly alleviates operator fatigue by supporting the operator's hand throughout the entire process. The vacuum tip automatically toggles on and off during component pick-up and placement. The digitally timed dispenser accurately deposits solder paste, adhesives and various potting compounds. **Features Include:** Gross and fine X,Y,Z & theta allows movement while hand is always supported. Innovative, movable padded hand rest design to alleviate operator fatigue and discomfort. Quick changeover for left/right handed operators. Movable, ESD Safe Component Bins slide in close to placement area. Optional stick and tape feeders with feeder rack. Precise Digital Dispenser Control with manual, semi-auto, automatic and "learn" modes.

Item No.	Description	Price
172PR170	Manual Pick & Place	$2995.00
172PR172	Manual Pick & Place & Dispenser	$3795.00
172PR174	Manual Pick & Place	$4195.00
172PR176	Manual Pick & Place & Dispenser	$4995.00
172PR178	Vision system for MPP series	$4995.00
172PR180	Stand for MPP-20/21	$495.00

Item No.	Description	Price
172PR182	Feeder Rack Holder	$495.00
172PR184	8mm Tape Feeder	$245.00
172PR186	12mm Tape Feeder	$245.00
172PR188	16mm Tape Feeder	$245.00
172PR190	24mm Tape Feeder	$245.00
172PR192	8mm Stick Feeder	$245.00
172PR194	10mm Stick Feeder	$245.00
172PR196	14mm Stick Feeder	$245.00



C. MPP-21 Manual Pick & Place w/ opt. stand (MPP-ST)
Large work area handles board sizes up to 16" x 24"; Movable padded hand and elbow rest. Design to alleviate operator fatigue and discomfort. Optional stand available.

D. Model MPP-11 Benchtop
Work area handles board sizes up to 14" x 14"; Movable, ESD safe component bins slide in close to placement area. Benchtop unit only.

Stencil Screen Printers

Manual Stencil/Screen Printers

The **Gold-Print™** benchtop, manual stencil/screen printers are designed for low to medium volume assembly runs. Precise X,Y, Z, and theta axes controls allow for accurate, consistent deposition of solder paste or masking material for SMT. These durable, easy-to-use systems provides repeatable and reliable results.

A. SPR-20 System Features

Compact, rugged Benchtop System for batch or prototype runs; Fine X, Y, Z and theta adjustments for stencil to board alignment; Clear plastic fixture provided for quick and easy stencil to board alignment; Independent 4 point Z axis leveling; Maximum print area: 12" x 15"; Quick, easy stencil changeover for short set-up times; Easy lift frame with adjustable counterweight; Compatible with tubular framed or frameless stencil/screens; Complete printing kit provides polyurethane squeegee & holder, one tubular frame, and Lexan™ fixture for easy registration set-up.

No. 172PR146 Stencil/Screen Printer **$3995.00**

UNIQUE "FOIL-FRAME" OPTION
An adapter frame fit is available for mounting frameless stencils (foils). This option greatly reduces your stencil costs.

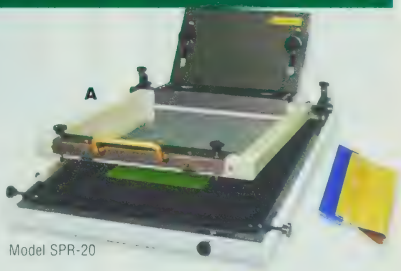
No. 172PR166 Foil Frame SPR-25 ..... **$595.00**

Call for a Demo in your area!

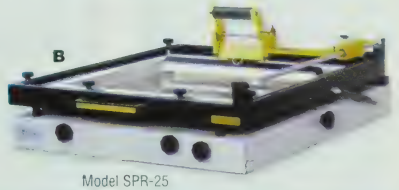
B. SPR-25 System Features

The SPR-25 has the features of all the SPR-series printers: Maximum print area of 16" x 18"; Dual Squeegee with guide for precise print stroke; Adjustable frame holder to handle any cast or tubular frame up to 23" x 23"; Rugged benchtop system for low to medium volume runs; Fine X, Y, Z and theta adjustments for stencil to board alignment; Clear plastic fixture provided for quick and easy stencil to board alignment; Quick, easy stencil changeover for short set-up times.

No. 172PR148 Stencil/Screen Printer **$1995.00** **No. 172PR164** Foil Frame SPR-20..... **$545.00**



Model SPR-20



Model SPR-25

Reflow Ovens

GF-12 Conveyorized Reflow Oven

The **Gold-Flow™** heating profiles are superior to batch and other ovens for several reasons. Each heating zone is programmable through the controller which stores up to 100 profiles. This inline oven includes three vertical heating zones plus a cooling zone with two heating options. The conveyor speed,heating elements, cyclonic generators and cooling fans are all programmable. The oven also features SPC fault monitoring & reporting, battery backup, real time graphic temperature profiler and a seven day timer for automatic machine start-up.

No. 172PR124 IR/Convection Reflow Oven **$7995.00**

No. 172PR126 Forcep Convection Reflow Oven **$8995.00**

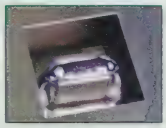
No. 172PR122 Profiling Accessory Kit for GF-12 .... **$199.00**

GF-B Shuttle Batch Reflow Oven

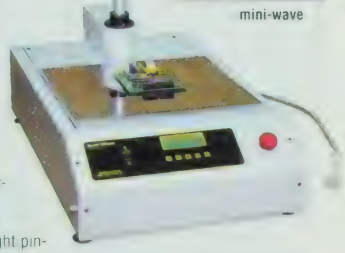
This easy-to use system with its microprocessor controls achieves profiles similar to production conveyor ovens. The **Gold-Flow™** oven is ideal for batch SMT reflow and curing applications. With its heavy duty construction and all stainless steel interior, the oven is designed for many years of reliable service. 100% forced air convection.

No. 172PR120 ..... **$4995.00**

GW-10 Soldering System for Thru-hole PCBs


mini-wave

Used for the removal and replacement of through hole components, connectors, etc. mounted on PC boards for rework as well as selective soldering applications. The microprocessor based, digital controller precisely and automatically regulates the following process parameters: solder bath temperature to +/-3 degrees F, solder flow wave height, solder flow cycle time, and excess solder "blow-thru" cycle time. Optional "Blow-thru" air unit removes solder remaining in through holes after reflow. Overhead locator laser light pinpoints position for placing component over the wave. A large selection of nozzles for all component sizes is available. Other features include: 25 menu storage, LCD display with membrane keypad.

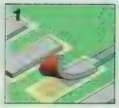
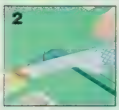


No. 172PR130 ..... **$3995.00**

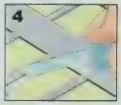
6 Steps to Fast, Reliable Circuitry Repair Using Adhesive Backed Circuit Frames.

Circuit Frames

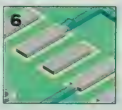
Imagine replacing damaged circuits without the mess of liquid epoxy, with a bond strength equal to the original, on bare or loaded PC boards -- all in about 30 seconds.Replacement Circuit Frames with dry-film epoxy backing make this delicate, precise procedure quick and neat. Trim out the circuit you need and bond it to PC board surface with a bonding iron or bonding press. Choose a standard Circuit Frame or let us design and fabricate a custom size. **Material Specs**: Overall Size: 2.25" x 1.50"; Base Material: Rolled annealed copper foil .0014" thick; Adhesive Backing: Thermoset Phenoloic Butral film .0018" thick; Bonding Temp: 475°F ± 25°F; Bonding Time: 30 Seconds; Peeling Strength: Minimum 8 lbs/inch after cure to FR-4 laminate. Plating Options: (T) Tin Lead: .001" 60/40 tin/lead min.; (G) Nickel/Gold: .000050" gold over .000100" nickel minimum.; (U) Unplated: No plating. *Standard plating is noted on the lower corner of each Circuit Frame*

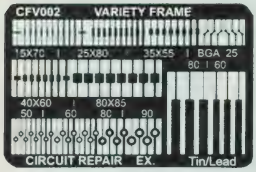
1. Evaluate the damaged circuits. If the base material is severely damaged it may have to first be repaired using epoxy. See Epoxy Kits.
2. Remove the defective pad and scrape off any soldermask from the connecting circuit. Apply liquid flux to the connecting circuit on the board surface and tin with solder.



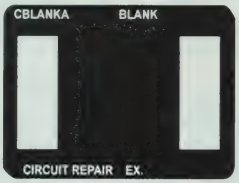
3. Select a replacement pad that matches the missing pad. Scrape off the adhesive bonding film from the solder joint area on the back of new pad.
4. Cut out the new pad from the Circuit Frame. Cut from the plated side.



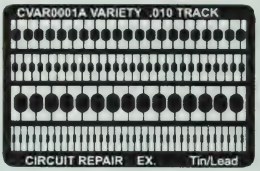
5. Temporarily hold new pad in place using Kapton tape. Then permanently bond new pad using the Repair System or bonding iron included with each Circuit Bonding Kit. Bonding time is only 30 seconds.
6. If the new pad has a connecting circuit, apply liquid flux (if desired) apply epoxy to the lap solder joint connection area and solder the circuit of the new pad to the circuit of the PC board surface.



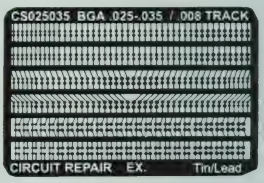
No. 246SO002 ..... $33.00



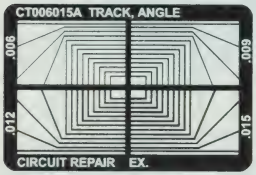
No. 246SO003 ..... $33.00



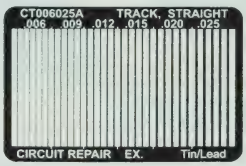
No. 246SO011 ..... $33.00



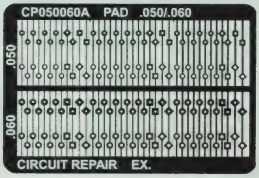
No. 246SO035 ..... $33.00



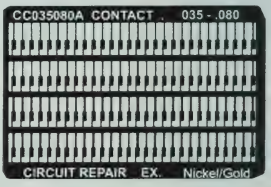
No. 246SO615 ..... $33.00



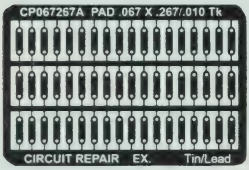
No. 246SO622 ..... $33.00



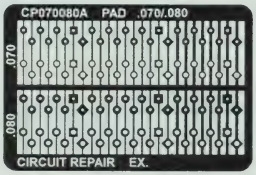
No. 246SO050 ..... $33.00



No. 246SO350 ..... $49.00

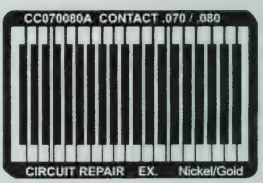


No. 246SO267 ..... $33.00



No. 246SO070 ..... $33.00

No. 246SO300 ..... $49.00



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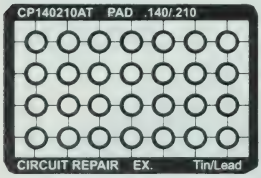

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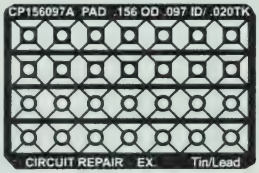

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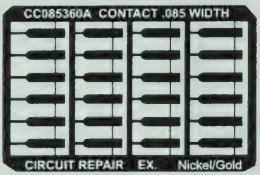
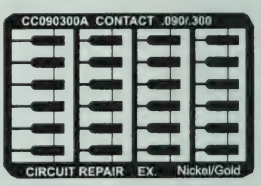
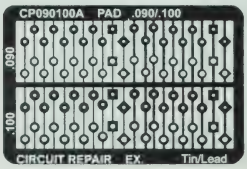


No. 246SO853 ..... $49.00



No. 246SO903 ..... $49.00

Using dry film adhesive backed Circuit Frames to repair damaged surface mount pads, BGA pads, gold edge contacts and conductors complies with the IPC suggested guidelines for reliability.



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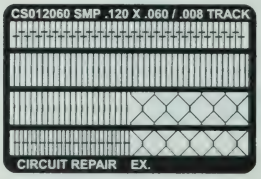
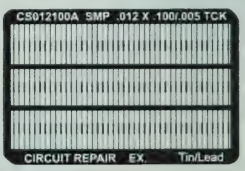


No. 246SO012 ..... $33.00



No. 246SO121 ..... $33.00

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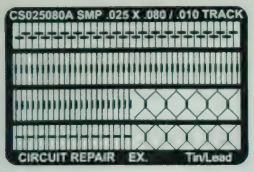

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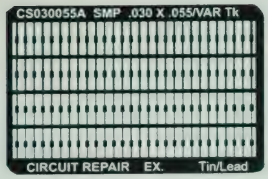

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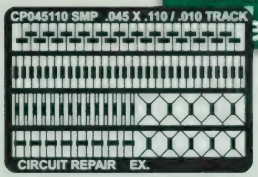
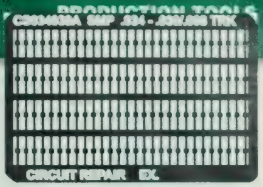


No. 246SO451 ..... $33.00



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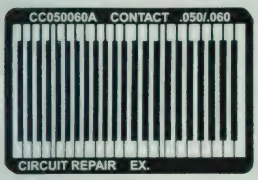

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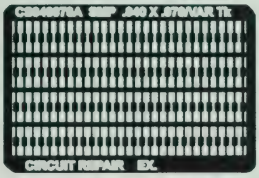

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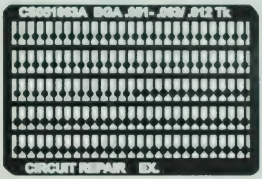
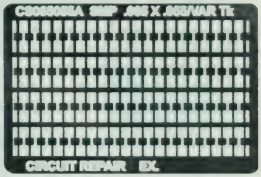


No. 246SO106 ..... $33.00



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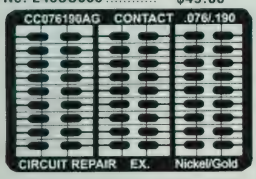
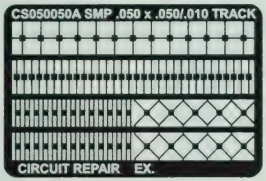


No. 246SO761 ..... $49.00



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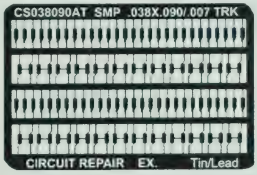

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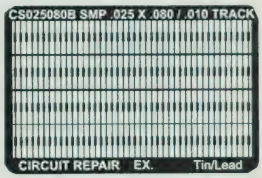

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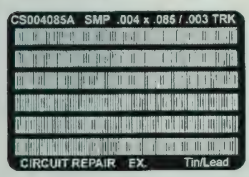

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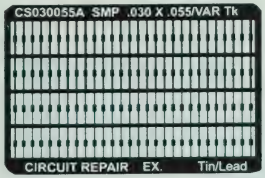

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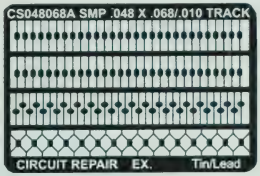

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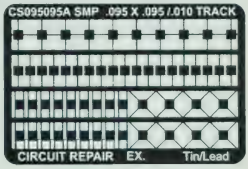

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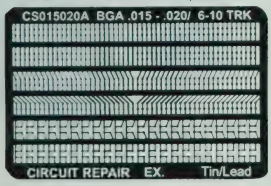

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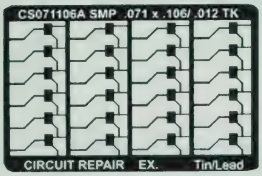
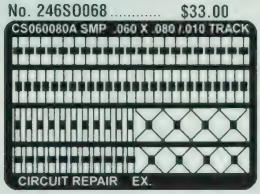
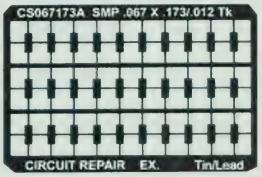


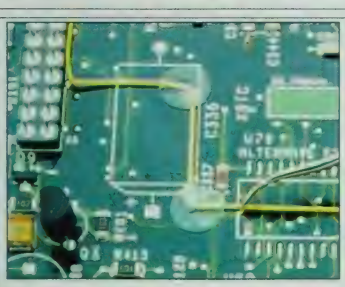
No. 246SO711 ..... $33.00



No. 246SO600 ..... $33.00



No. 246SO717 ..... $33.00



Hold wires permanently in place with reliable Tape Dots

Tape Dots

No more hot melt glue, or super glue mess. Hold wires permanently with tape dots. Just peel and stick for a quick, neat job. 1/4"Dia.;250/Pkg.

Tape Dots, Pkg 250
No. 246SO133 ..... $34.50

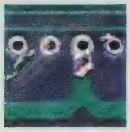
Circuit Bonding Repair Kits

Replacing damaged surface mount pads, gold edge connectors, circuit tracks and plated-through holes has never been faster, more reliable or more economical. The MA-2 Master Repair Kit handles them all. For specific repairs, use the Connector Edge Repair Kit, Pad/Etch/Through Hole Repair Kit or the Surface Mount Pad Repair Kit. All kits have replacement circuits with dry-film epoxy backing. The new circuit is bonded in place with a bonding iron included in each kit. Messy liquid epoxies are not used for bonding.

TT No.	Description	Price
246SO122	MasterRepair Kit, 120 VAC	$499.00
246SO207	Master Repair Kit 230 VAC	$499.00
246SO208	Connector Edge Repair Kit, 120 VAC	$299.00
246SO209	Connector Edge Repair Kit, 230 VAC	$299.00
246SO126	Pad/Etch/Through Hole Repair Kit, 120 VAC	$299.00
246SO211	Pad/Etch/Through Hole Repair Kit, 230 VAC	$299.00

TT No.	Description	Price
246SO120	Surface Mount Pad Repair Kit, 120 VAC	$895.00
246SO213	Surface Mount Pad Repair Kit, 230 VAC	$299.00

Eyelet Systems



Before

After

EP-20 Eyelet Press System

The EP-20 Eyelet Press System is used to precisely form eyelets in PC boards for repair and assembly.
Includes: Heavy-Duty Eyelet Press, 8 Different Eyelet sizes, 1 Form Tool, 1 Anvil Tool and hand setting tools.
No. 246SO510 ..... **$995.00**

EY-1 Eyelet Kit

The EY-1 Eyelet Kit includes 8 different eyelet sizes and hand tools for quick repair of damaged holes in PC boards.
No. 246SO135 $95.00

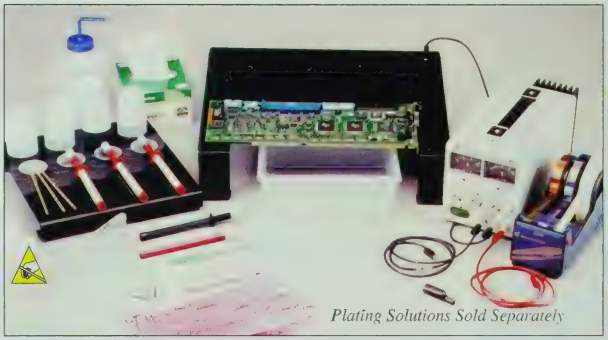
TT No.	System	Kit	Description	Price
246SO602	1	1	Ball Mills #2, .039" Diameter	$2.95
246SO603	1	1	Ball Mills #3, .047" Diameter	$2.95
246SO605	1	1	Ball Mills #5, .063" Diameter	$2.95
246SO726	50	50	Eyelet, Flat .020" ID x .094" L	$19.50
246SO736	50	50	Eyelet, Flat .030" ID x .093" L	$19.50
246SO733	50	50	Eyelet, Flat .033" ID x .093" L	$19.50
246SO766	50	50	Eyelet, Flat .036" ID x .093" L	$19.50
246SO746	50	50	Eyelet, Flat .045" ID x .090" L	$19.50
246SO855	50	50	Eyelet, Funnel .055" ID x .091" L	$19.50
246SO646	50	50	Eyelet, Funnel .064" ID x .091" L	$19.50
246SO873	50	50	Eyelet, Funnel .073" ID x .093" L	$19.50
246SO502	1		Eyelet Press Stand	$795.00
246SO318	1	1	Mill Handle	$3.75
246SO308	1	1	Practice Board	$15.95

Plating System and Epoxy Kits

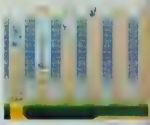
Plating Solution Kits

Each kit includes Gold and Nickel plating solutions, Electroclean preparation solution and Solder Strip chemical stripping solution. Solutions also sold separately.

TT No.	Description	Price
246SO380	Plating Solution Kit, 1 oz. each	$395.00
246SO385	Plating Solution Kit, 4 oz. each	$695.00
Individual Solutions		
246SO382	Gold, 1 oz.	$195.00
246SO384	Gold, 4 oz.	$495.00
246SO383	Nickel, 1 oz.	$95.00
246SO834	Nickel, 4 oz.	$125.00
246SO841	Electroclean, 1 oz.	$95.00
246SO844	Electroclean, 4 oz.	$125.00
246SO851	Solder Strip, 1 oz.	$95.00
246SO854	Solder Strip, 4 oz.	$125.00



Plating Solutions Sold Separately



Before and after photos show how neatly you can replate solder contaminated gold contacts.

Connector Edge Plating System

The CE-10 Connector Edge Plating System is designed exclusively for replating connector edge contacts on PC boards. This system is ideal for replating solder contaminated gold connector edge contacts, contacts that don't meet the minimum thickness specification, or when the specification changes.
Includes a power supply with separate voltage and current meters, a non-slip board holder designed to keep the PC board at the right angle and a solution tray that keeps plating probes and plating solutions in place. Plating probes use pre-wrapped, screw-on plating anodes to end the common problems associated with loosely wrapped cotton anodes. Available in 120\230 VAC.
No. 246SO170..... **$995.00**

Plating System includes items listed below:

TT No.	Description	Qty\Pkg.	Price
246SO370	Abrasive Pads	10	$5.00
246SO240	Alligator Clips	1	$.90
246SO704	Board Support	1	$125.00
237CH202	Conductive Pen	1	$14.50
246SO116	Eraser Stick	1	$3.00
246SO750	Glove, Med. N-Dex	100	$20.00
246SO112	Kimwipes, 4.5" x 8.5"	1	$3.00
246SO022	Knife, Precision	1	$3.15
246SO331	Plastic Cups	100	$7.50
246SO374	Plating Cable, Black	1	$13.00
246SO743	Plating Cable, Red	1	$13.00
246SO375	Plating Probe, Black	1	$26.50
246SO753	Plating Probe, Red	1	$26.50
246SO372	Plating Anode, Std.	1	$39.00
246SO722	Plating Anode, Small	1	$29.00
246SO373	Plating Anode Cap	10	$7.50
246SO171	Power Supply	1	$334.70
246SO378	Rinse Bottle	1	$9.45
246SO376	Rinse Tray	1	$9.50
246SO590	Safety Glasses	1	$2.50
246SO379	Solution Tray	1	$89.00
246SO282	Foam Swab	100	$19.00
246SO290	Tape Dispenser	1	$36.25
246SO205	Tape, Kapton, .50" W	1	$14.00
246SO715	Tape, Peeling Test	1	$16.00
246SO305	Tape, Polyester, .50" W	1	$7.00
246SO377	Wire, Buss, 30 AWG	1	$19.50

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Solder Aid Tools

Solder aid tools - hex-shaped handles are made from wood or butyrate plastic. Solder will not stick to stainless steel brushes or chrome-plated steel, twist-proof tips. Both ends of tool are insulated from one another.

Description	No.	OAL	Handle	1-11	12+
A. Reamer & Scraper Tip	388SO022	6-1/2	Plastic	$2.80	$2.90
B. Brush & Forked Tip	388SO024	6-1/2	Plastic	$3.30	$2.90
C. Brush & Scraper Tip	388SO026	6-1/2	Plastic	$3.30	$2.90
D. Straight Reamer	388SO028	6-1/2	Plastic	$3.30	$2.90
& Forked Tip	388SO048	5-3/4"	Wood	$3.95	$3.50
E. Angled Reamer	388SO030	6-1/2	Plastic	$3.30	$2.90
& Forked Tip	388SO050	5-3/4	Wood	$3.95	$3.50
F. Spudger Fiberglass	432SO122	6	Fiber	$2.25	$2.00
G. Spudger Fiber Construction	182SO020	5-1/2	Fiber	$6.70	$5.55

Description	No.	OAL	Handle	1-11	12+
H. Micro Aid Fork & Hook	480SO016	5-1/2	Plastic	$4.20	$3.60
J. Straight Reamer	388SO032	8	Plastic	$3.95	$3.30
& Forked Tip	388SO052	7-1/2"	Wood	$3.95	$3.50
K. Heavy Duty Brush & Forked Tip Stainless steel—hardened pastic	388SO034	8	Plastic	$3.95	$3.30
L. Angle Reamer	388SO040	8	Plastic	$3.95	$3.30
& Forked Tip	388SO054	7-1/2	Wood	$3.95	$3.50
M. Brush & Scraper Tip	388SO042	8	Plastic	$3.95	$3.30
Stainless steel brush	388SO056	7-1/2"	Wood	$3.95	$3.50

Soldering Accessories

Mini-Pot

Used for stripping, tinning and soldering heat strippable wires. Entire assembly is grounded. 3 wire, grounded cords. Porcelain base, rubber non-skid mount – 110 V/60hz.

800°F No. 432SO240 ..... **$60.00**
700°F No. 432SO947 ..... **$60.00**
600°F No. 432SO946 ..... **$60.00**

Soldering Iron Holder

Universal slim and narrow iron holder. Chrome base with sponge. Sturdy construction wire. Non-skid stand—can be used in clean room.
No. 432SO218 .... **$34.80**

Tip Cleaning Sponge In Metal Tray

Pure cellulose sponge contains no drying agents. New dross reservoir.

No. 432SO130 Complete (sponge w/hole) **$5.25**
No. 432SO124 Complete unit (solid sponge) **$5.25**
No. 432SO132 Sponge w/hole **$11.60**
No. 432SO126 Solid sponge only **$11.60**

Standard Solder Aid Kit - 6 pc

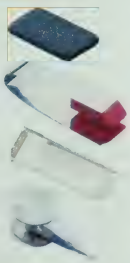
This kit contains the most frequently used soldering aids. Includes: Standard Aids: reamer/fork, angled reamer/fork, brush/scraper; Miniature aids: reamer/fork, angled reamer/fork, brush/scraper; case.
No. 182PR010 ..... **$31.00**

Tip Scrubber
Composition cleaner. Removes oxidation, flux and residues.
No. 432SO286 ..... **$5.95**

Eraser Cleaning
Removes oxides and contamination from PC boards & leads.
No. 432SO138 ..... **$5.25**

Component Lead Cleaner
Stainless steel hand tool complies with NASA requirements.
No. 182SO016 ..... **$3.50**

HeatSink
Copper tipped clips. 1-1/8" long.
No. 432SO116 ..... **$4.25**



EDSYN

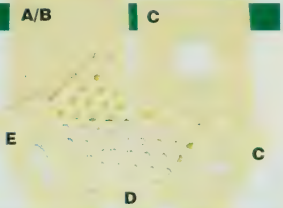
Anti-Seize Compound

Anti-Seize Compound complies with: MIL-A-907E, and has a temperature range: -65°F - 2000°F. Contains: 2cc Anti-Seize compound; Does not contain: Lead, moly, or halogen compound.
No. 330CH112 ..... **$4.50**

New!

Replacement Solder Sponges

These all-natural, live porosity, replacement sponges are made to meet the exacting specification of their original counterpart.
Meets MIL- STD 2000.



TT No.	Type	Use With	MFG#	Size	10/PK PRICE
432SO126	A	Hexacon	8101, 8101C, CS-3	3.4" x 4.4"	$11.60
432SO132	C	Hexacon	8121, 8121C, CS-9	3.4" x 4.4"	$11.60
321SO101	B	Hexacon	8101	3.4" x 4.4"	$10.30
468SO701	A	Weller	EC-3000	2.63" x 2.63"	$8.25
321SO110	D	Weller	EC-4000	2.63" x 2.63"	$8.55
321SO111	A	Weller	MP Series	2" x 2.63"	$8.55
468SO002	A	Weller	CS-14	2.15" x 2.75"	$8.25
468SO130	A	Hexacon/ Weller	1001-02 DS-100	2.19" x 3.5"	$9.80
321SO140	C	EDSYN	RS-199 CS-40	2.5" x 3.2"	$10.30
468SO302	A	Weller	EC-100/EC-100-1/ EC-2000-1	2.75" x 4.62"	$8.25
432SO134	C	Hexacon	1001-1002	2.25" x 3.5"	$9.80
468SO703	C	EDSYN	RS-199 CS-40	2.5" x 3.2"	$8.25
468SO503	E	Hakko	926 700	1.75" x 4"	$8.25
321SO144	D	Hakko	927	2.7" x 2.7"	$9.25
468SO403	C	Weller	921ZX1	2.7" x 2.7"	$8.25
468SO602	C	Metcal	YS1	1.7" x 1.7"	$8.25
468SO001	C	Metcal	YS2	2.1" x 3.6"	$8.25
468SO801	C	Metcal	STSS YS-3	2.1" x 3.2"	$8.25
468SO101	C	PACE	4021-0005	1.5" x 2.15"	$8.25

Techni-Tool® Heat Sinks Solder Aids/Parts Holders

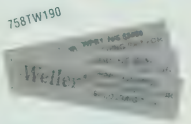
Absorbs and dissipates heat. Plastic-covered handles. **(USA)**

QUANTITY DISCOUNTS AVAILABLE

Set of three
No. 758TW184 ..... **$6.50**
For delicate work. 1-3/8" OAL.
No. 758TW190 ..... **$1.35**
Medium-Duty. 2-5/8" OAL.
No. 758TW188 ..... **1.95**
Heavy-Duty. 2-5/8" OAL.
No. 758TW186 ..... **3.25**

Polishing Bar

Use this heavy polishing bar to clean your solder tips. **(USA)**
No. 272SO010 ..... **$7.70**



TECHNI-TOOL
Fax: 1-800-854-8665

PANAVISE Complete Sets

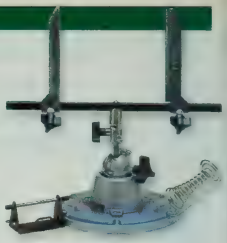
Model 301
The PanaVise Model 301 tilts, turns & rotates. This general purpose vise includes the Standard Base Model 300 and Model 303 Head with satin-finish, nylon jaws. One convenient control knob locks work in any position.
No. 620PO012 ..... **$42.95**

Model 381
PanaVise 381 Vacuum Base combines with the Model 303 Standard PanaVise to add portability. A half turn of the mounting lever attaches & releases the power suction pad to allow set-ups in any location with smooth non-porous surfaces.
No. 620PO086 ..... **$54.95**

Model 333 Rapid Assembly Circuit Board Holder
Eight-position, rotating adjustment and six positive-lock positions in the vertical plane. Cross bars available up to 30" long, 12" bar standard to hold circuit boards up to 28" wide. Spring-loaded, tilt- angle adjustment, height adjustment and quick board rotation.
No. 620PO056 ..... **$64.95**

Model 396
Holds electrical and electronic products in any position. Model 396 is a combination of the 366 wide opening head and the 300 standard vise base. Each full turn of the insulated handle permits micro-adjustments to the exact pressure required.
No. 620PO090 ..... **$45.95**
No. 620PO070 Pads **$3.00**

Model 324 Electronic Work Center
Convenient, economical. Angle of solder iron keeps iron at proper heat, and solder holder centers wire. Keeps everything right at hand. (Combines No. 620PO028, 620PO010, 620PO026, and 620PO080 Solder Station.)
No. 620PO050 ..... **$76.95**



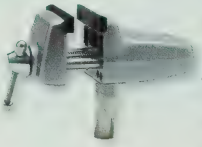
PV Jr.
Tilt. Turn. Rotate. A tool...a vise for small projects. Hold and work through three planes. Thermo-composite jaws open to 2-7/8" (7.3 cm). Head: Rotates 360°; Swivels 360°; Pivots 210°; and fits all PanaVise base mounts.
No. 620PO201 ..... **$21.95**

PV Jr. Head
PV Jr. head fits all 300 series bases. Grooved jaws open to 2-7/8" (7.3 cm) and are made of fiber reinforced thermal composite alloy. Jaws are 1"W x 2"T x 3-3/4"H.
No. 620PO203 ..... **$20.90**

Multi-Purpose Work Center
Economical and convenient, this unit will find a million and one uses on your workbench. (Combination of No. 620PO082, 620PO010, & 620PO026.)
No. 620PO072 ..... **$74.95**
Deluxe Neoprene Replacement Pads
No. 620PO070 ..... **$3.00**

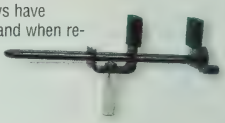
Heads/Holders

Model 303 Standard Head
This rugged head opens 2-1/4". It has non-conductive, satin-finish, nylon jaws for increased grip and gentle strength. Fits all PanaVise Bases
No. 620PO014 ..... **$23.95**
Replacement Jaws (Only) - 3 Pk.
No. 620PO066 Smooth Nylon Jaws **$2.50**
No. 620PO068 Grooved Nylon Jaws **$3.50**
No. 620PO074 Plated Steel Jaws **$5.95**



Model 315 Circuit Board Holder
Crossbar holds p.c. boards from 1/8" to 12". A second set of "V" grooves is positioned laterally near the tip of the 6" arms.
No. 620PO028 ..... **$29.95**
No. 620AC316 Replacement arms **$17.95**

Model 366 Wide Opening Head
Opens a full six inches. Reversible neoprene jaws have molded grooves for firmly holding p.c. boards, and when reversed, the wide "V" configuration securely holds cylindrical objects.
No. 620PO078 ..... **$30.95**



Model 376 Self Centering Extra Wide Opening Head
Double-action jaws provide fast opening, closing and support of heavy loads. Opens a full 9". Ribbed on one side & "V" grooved on the other, reversible jaw pads. Fits all of the Series 300 bases.
No. 620PO082 ..... **$41.95**

Replacement Jaws for Models 396, 376 & 366
Deluxe Neoprene Pads. A corrugated surface. 2/pkg.
No. 620PO070 ..... **$3.00**

Bases

Model 300 Standard Panavise Base
Holds all PanaVise Heads & p.c. board holders. Variable load control knob & exclusive splitball feature have a range of tension which permits moving work to any position. A slight additional turn locks the head firmly in place.
No. 620PO010 ..... **$19.95**

Model 305 Low Profile Base
Has all the features of the Standard PanaVise Base. Only 2-1/2" high, designed for working close to the bench surface & with its straight side, can be mounted adjacent to the edge of a bench. Three holes in base are for permanent mounting or attachment to a Base Mount.
No. 620PO018 ..... **$19.95**

Model 380 Vacuum Base
Attaches instantly with a firm grip, without marring, to smooth nonporous surfaces such as smooth formica tables, porcelain or stainless steel counters. A flip of the lever attaches and releases suction pad.
No. 620PO084 ..... **$31.95**

Micrometer Stand and Holder
Eliminate the need to constantly find, pick up and recalibrate your micrometers. The 90° tilt, 360° turn, and 360° degree rotation is all controlled with a single knob. **(USA)**
No. 620PR385 Micrometer Holder .. **$21.95**
No. 620PR391 Micrometer Stand **$39.95**

Model 311 Bench Clamp Base Mount
Provides portable mounting. Clamps to bench or table.
No. 620PO024 ..... **$38.95**

Accessories For Models 300, 305, 366 & 376

PANAVISE

Tray Base Mount
Holds either base securely. Six individual trays to hold small parts and tools separate. Wide 8-1/4" diameter catches dropped parts. Slip resistant neoprene feet give additional stability.
No. 620PO026 ..... **$20.00**

Weighted Base Mount Only
This mount is drilled & tapped for stable portability. The 5 lbs. cast iron mount has nonmarring, antiskid feet. Screws included.
No. 620PO020 ..... **$27.95**

355 Magnetic Base Mount
The 355 Magnetic Base Mount is perfect for the worker on the go: attach it to metal beams, tool cabinets, steel tables, etc. To help give support three 1/4-20 holes are evenly spaced on a 4-5/16" (111mm) bolt circle, and the magnetic base mount is 0.4" (10mm) thick. (For 201, 300 & 305 bases).
No. 620PR335..... **$17.40**

Wire Manager
Organize your task when working with multiple wire leads. The Wire Manager slides easily onto PanaVise heads. (For 366/376 vises)
No. 620PR358..... **$21.35**

Vises

Specially Priced!

A

B

C

D

E

F

G

H

A. Self-Centering Vise
0.6" to 9-3/8" grip range.
Reversible: 1" x 1-1/2" jaw pads.
No. 876PR034 ..... **$39.95**
Replacements Pads (Rubber)
No. 876PR020..... **$5.50**

B. 6" Vise 0 to 6-1/2" grip range.
Reversible: 1-1/2" x 2" jaw pads.
No. 876PR032..... **$48.90**

C. 3" Vise 0 to 3-1/2" grip range.
Reversible: 1" x 1-3/4" jaw pads.
No. 876PR030 ..... **$29.40**

D. Jaw Pads
For No. 876PR030 & 876PR032 - Neoprene
No. 876PR018 ..... **$4.70**

E. Round Base & Work Positioner
Freestanding, or bolts to the bench.
Has a 6" cast iron base.
No. 876PR038..... **$57.80**

F. Delta Base Heavy cast iron. Three contact points, nonskid feet and shaped work area. (Incl. positioner 876PR012).
No. 876PR042 ..... **$60.80**

G. Clamp Base and Work Positioner
For 5/8" to 2" bench thickness.
No. 876PR036 ..... **$70.55**

H. Bench Mounted Work Positioner
A preload ball joint holds its position unlocked. Horizontal movement of the handle locks the joint in position.
No. 876PR012..... **$42.25**

A

B

Adjustable™ "C" Clamps
Iron frame "C" clamp with bright-plated finish. Machine-ground anvil, steel screw with smoothly cut threads.

	No.	Opening	Depth	Price
A.	No. 114PO413	1"	3"	$3.95
	No. 114PO423	2"	3-1/2"	$5.45
B.	No. 114PO430	3"	2"	$4.50

AMERICAN TOOL

Mini Bar Clamp!
Quick-Grip®
Instantly adjustable clamping pressure with Quick-Release™ trigger that lets go in a snap.
No. 644PO546 6"/150mm jaw opening,1-1/2" jaw depth .. **$21.00**
No. 644PO512 12"/305mm jaw opening, 1-1/2" jaw depth.. **$31.35**
No. 644PO518 18"/455mm jaw opening, 1-1/2" jaw depth .. **$33.95**

Micro Bar Clamp/Spreader.
Quick-Grip®
Use as a clamp; convert to use as a spreader. These clamp/ spreaders are lightweight, easy to use and feature positive locking action jaws that exert 50 lb. pressure, open 4.5", and have soft, durable pads to protect delicate work.
No. 644PO006 ..... **$12.75**

Quick-Grip® Spring Clamp
Designed to be used with one hand. Soft, pliable, removable pads protect fine finishes. Constructed from high-tech resin material. They are strong, lightweight, and rust resistant. Ergonomic nonslip handles designed for comfortable hand span. Jaws are contoured to hold round and odd-shaped objects.
No. 644PO100 1" (25 mm) .. **$3.30** **No. 644PO300** 3" (75 mm) .. **$8.50**
No. 644PO200 2" (50 mm) .. **$4.50** **No. 644PO400** Set of three **$10.95**

Portable Vacu-Vise
Fastens firmly to any smooth, non-porous surface with "super-vacuum." 2-1/2" Metal Jaws. Size of Opening: 3".
No. 402PO010 ..... **$26.95**
Replacement Jaws Only
No. 402MI825 Metal Jaws..... **$4.25**
No. 402PO018 Rubber Jaws **$2.50**

Multi-Angle Swivel-Action Vacu-Vise
Swivels 360° and tilts 90° to desired angle. 3" metal jaws open to 3". Equipped with slide-on rubber jaws for fragile work. 6-1/4" triangular base.
No. 402PO012 ..... **$37.35**
Slide-on Rubber Jaws
No. 402PO016 ..... **$2.50**

Mini Vacu Vise
No screws. Lever-operated suction cup holds tightly and instantly on nonporous smooth surfaces such as glass, metal or laminated surfaces such as Formica. Max opening: 1-1/4".
No. 890PR216 ..... **$9.95**

PONY© Light-Duty Clamp-On Vise
Designed for light-duty shop and professional use, this vise is fully portable and mounts easily and securely on edges up to 2" thick. Plated-steel double guide-bars allow smooth operation. 3" jaw width with 2-1/2" max. opening. (China)
No. 114PO025 ..... **$17.55**

PONY© Light-Duty Bench Vise with Swivel Base
Features square four-hole swivel base, sturdy steel jaw faces, ground and polished anvil, permanent pipe jaws and forming horn. Vise swiveis minimum of 270° on the base. 3-1/2" jaw width with 3" max. opening capacity. **(USA)**
No. 114PO530 ..... **$24.50**

X-tra Hands With Magnifier
2X Magnification and holds work firmly in any position to leave hands free. Double-ball joints for adjustments at any angle.
No. 890PR234 ..... **$16.95**
X-tra Hand Same as No. 890PR234 but without Magnifier.
No. 890PR230 ..... **$13.95**
Single Arm Without Magnifier
Holds work firmly in any position leaving hands free
No. 890PR228 ..... **$12.50**

X-ACTO

TECHNI-TOOL

Circuit Fixture Holder

To index the card: Lift up, push in, turn and release card. Card locks in position & returns to preset tilt angle. Automatic, quick rotation index collar secures card at 90° increments or alternate manual clamping at any angle with easy to use knob. Automatic tilt angle position stop, adjustable to hold card horizontally, 15° or 30° down, or may be secured at any angle by clamping knob. Adjustable tension, spring loaded arms securely holds card. Fixture holds cards from 1" x 1" up to 8" x 8" and from 1/32" thickness to 1/8" and wider with optional extension arm.

Shipping ABU: Wt: 8 lbs. each.

No. 764PO010 ..... (1-4) **$66.00** (5-24) **$62.30** (25+) **$58.55**

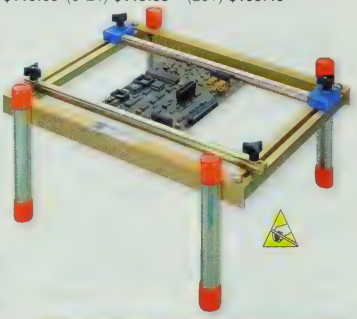
Accessories:

No. 764PR012 Extension Arms **$24.00**

Big Board Holder – Holds 18"

No. 764PR311 ..... (1-4) **$119.60** (5-24) **$113.35** (25+) **$108.40**

Mini-Flip SMT Board Rack



The Mini-Flip has one spring-loaded rail and one standard rail, both reversible and ESD safe. Position the four adjustable-height legs to maintain your board horizontally, or remove the two front legs for convenient angled usage.

Holds boards up to 8" x 12"
No. 358CA008 ..... **$80.00**
Holds boards up to 12" x 16"
No. 358CA012 ..... **$95.00**

PC Board Holder

Features: fast-loading, spring-loaded rails, adjustable height tilt legs, adjustable & removable foam cover, skid-resistant legs. Low profile permits fast, comfortable loading & soldering of P.C. boards. Spring loaded rails provide a firm grip on each board. Board changing is fast & efficient. Two rails included. Optional extra rails available for multi-board assembly. Adjustable legs allow the steel frame to be changed from a 1" position to a 3" high sloping position. The cover is adjustable for component tension. Upon completion of component stuffing, the entire holder is flipped over for cutting and soldering. Standard memory foam & anti-static foam available. Maximum P.C. Board size 19.6"L x 9.0"W. *Frame available separately.*

No. 664PR502 Standard Foam **$110.00**
No. 664PR503 Conductive Foam **$125.00**

PCB Magazine Rack

New!

This magazine rack is designed for use with in-line machinery or as stand-alone board carriers. Has zero flexing of card guides with two reinforced steel supports and molding ribbing. The ABS material tolerates 85°C and has surface resistivity of 10Ω/cm for ESD protection. Designed with four steel corner posts for increased rigidity. Top and bottom side board assembly can be handled with the reversible PCB Magazine Rack which can be used in either the right-side up or upside down positions. First slot starts at 35mm from base; slots measure 3mm deep by 7mm high. Has cut out carrying handles in the top panel and can load from either end. **Specs:** Dimensions: 318mm W x 335mm L x 570.5mm H: Min. PCB Measure: 50W; Max. PCB Measure: 258W x 3301; Capacity: 50. **(USA)**

No. 358PR092 ..... **$125.00**

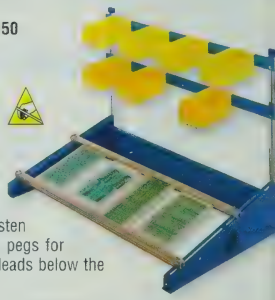
Max Rack

Choose the exact number of PC boards to store with the Max Rack. Using the snap-in guides, you can set the correct pitch depending on the profile height of the board. **Features:** aluminum construction on four sides and back stop; stackable with two fold down aluminum carrying handles, conductive, ESD safe, snap-in guides up to 16" in length; min. board pitch of 3/4"; optional dividers in two standard sizes. **(USA)**

O.D.: 12"L x 12"W x 16"D;
Board Capacity: 12"W x 16"D; Number of Boards: 15.
No. 358ST216 ..... **$204.60**
O.D.: 12"L x 14"W x 16"D; Board Capacity: 14"W x 16"D; Number of Boards: 15.
No. 358ST416 ..... **$224.40**
O.D.: 16"L x 16"W x 18"D; Board Capacity: 16"W x 18"D; Number of Boards: 20.
No. 358ST618 ..... **$290.40**

Dividers
For Max Rack 12"L x 12"W x 16"D and 12"L x 14"W x 16"D.
No. 358ST1216 ..... **$66.00**
For Max Rack 16"L x 16"W x 18"D.
No. 358ST1618 ..... **$85.50**

Combo-Slide



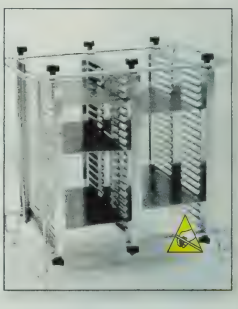
Adjustable capacity to hold 18" boards. Ruggedly constructed of 1/16" steel with an attractive blue enamel finish. Optional rails for use with solder or assembly fixtures with Nylatron for easy sliding. Very sturdy design for stability and comfortable 20° working angle. Rails are ESD safe with clear chromate finish. Side panels fasten together and rails interconnect with nylon pegs for easy board movement. Clearance for 1/2" leads below the board, and optional parts rack. **(USA)**

Combo-slide with two PCB slide rails
No. 358ST036 - 36" **$145.00**
No. 358PR048 - 48" **$155.00**

PCB slide rail
No. 358ST136 - 36"..... **$23.00**
No. 358PR408 - 48" **$26.00**

Parts bin rack with two stringers (24" high)
No. 358ST048 - 48"..... **$65.00**

PCB Handling Hand-Held Carriers



System features adjustable panels with 5/8" slide spacing that accommodate boards up to 1/8" thick. These hand-held units carry up to 20 full-size boards; optional double-sided center panels increase capacity of carriers. *ESD Classification: Conductive.*

Specs: Max. board size:
13" x 12"; 12-1/2"W x 17-1/2"L x 18-3/16"H.
No. 474AC111 ..... **$99.50**

Specs: Max. board size:
19-1/4" x 12"; 12-1/2"W x 24-1/4"L x 18-3/16"H.
No. 474AC113 ..... **$105.00**

Specs: Max. board size: 26-1/8" x 12"; 12-1/2"W x 31"L x 18-3/16"H.
No. 474AC114 ..... **$111.50**

PCB Handling Tray

20 Board Positions at 1" Spacing

For easy, efficient handling and transport of PC boards during various stages of production. Holds boards of varying size & thickness. Molded-in-camber prevents spinning or turning on flat surfaces. Vent slots provide free air circulation. Unloaded trays nest when stacked.

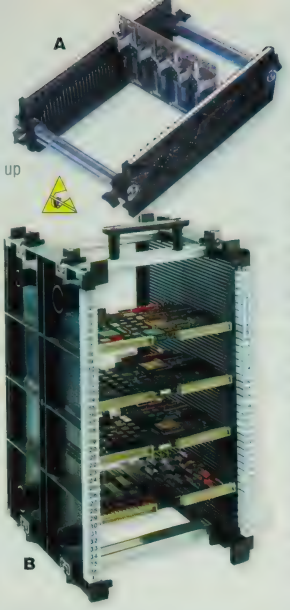
TT No.	Board Cap.	Material	Duty Cycle	Colors	PRICE
Size: 23"L x 8.5"W x 1.25"D					
220ST018	20	Glass-Filled Polyester	350°F	Gray	**$29.80**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Transport and Storage Made Easy.

Adjustable Karry-All™

Use your KARRY-ALL™ to store and transport various sized PCBs during assembly, soldering, inspection and t est processes. Made of ESD-safe, reinforced conductive polypropylene, the KARRY-ALL withstands temperatures up to 185°F. **Features**: adjustable supports of various widths to accommodate boards up to 24" wide; 75 slots measuring .110 x .155 on a .210 pitch; easy set up with tubular aluminum extensions; and non-rotating nuts with thumbscrews for easy adjustment. Standard unit is 12.5" deep; optional 18" depth for very large boards. Optional Handle.



13.25"L x 15"W x 4"D (14 Boards)
A. No. 358CA144 (Shown)..... **$40.00**
13.25"L x 9"W x 8"D (8 Boards)
A. No. 358CA688 ..... **$84.00**
18-3/4"L x 14"W x 12.5"D
B. No. 358ST122 ..... **$85.00**
18-3/4"L x 20"W x 12.5"D
B. No. 358ST182 ..... **$94.50**
18-3/4"L x 26"W x 12.5"D
B. No. 358ST242 ..... **$99.00**
15.25"L x 15"W x 5.5 D
B. No. 358AC791 ..... **$44.00**
15.25"L x 15"W x 11"D
B. No. 358PR025 ..... **$98.00**
15.25"L x 21"W x 5.5"D
B. No. 358PR026 ..... **$48.00**
15.25"L x 21"W x 11"D
B. No. 358PR027 ..... **$104.00**

Card Guide
No. 358PR028 15.25"L x 5.5"D **$9.00**
No. 358PR029 15.25"L x 11"D **$40.00**

Extrusion
No. 358PR033 9" Long **$8.80**
No. 358PR032 15" Long **$10.00**
No. 358PR034 21" Long **$11.00**

Carrying Handle
No. 358PA002 ..... **$5.60**

Legs for Horizontal Use
No. 358PR030 ..... **$14.00**

Thumb Screw
No. 358PR031 ..... **$1.60**

Karry-All Transport Cart

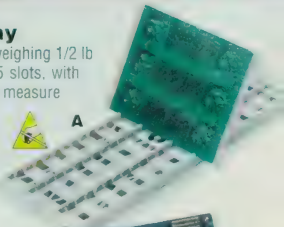
New!

The Karry-All Transport Cart holds racks with various size boards in one cart. Holds up to 6 racks, and 450 boards in a small amount of floor space. Designed with open mouth on slide assembly for easy loading and unloading of racks, and holds your boards at a 5° angle for a more secure transport. This ESD safe cart comes complete with four grounding collet sets and one chain. **(USA)**

Cart with six 80-12-2 Karry-Alls
No. 358BE891 20" x 30" x78" **$725.00**
Cart with six 80-18-2 Karry-Alls
No. 358BE898 26" x 30" x 78" **$750.00**
Cart with six 80-24-2 Karry-Alls
No. 358BE892 32" x 30" x 78" **$825.00**

Conductive Universal Tray

The Universal Rack measures 6"W x 18"L, weighing 1/2 lb has undercut ends for carrying handles: 25 slots, with parallel sides for more rigid holding that measure .125" x .300" on a .625" pitch. **(USA)**



Standard Conductive (185°F)
A. No. 358ST018 ..... **$13.00**
No. 358PR181 Cleanroom..... **$16.00**

High Temp Conductive (275°F)
No. 358CA118 ..... **$32.00**

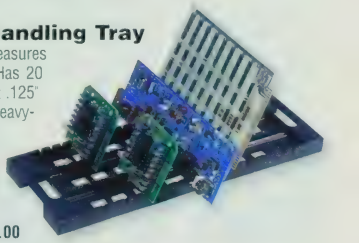
Very High Temp Polysufone (350°F)
No. 358ST180 (Shown) **$34.00**

Double wide, conductive model expands to hold boards up to 24" wide with a carrying handle; measures 20"W x 18"L. (USA)
B. No. 358PR180 ..... **$40.00**

Rack-All High Temperature Rack
Designed to handle very high temperature boards for bare board processing, tolerates acids, alkalines, and solvents. Measures 6" x 18" and features 25 slots with parallel sides for more rigid holding measure .125" x .300" on a .625" pitch. (USA)
B. No. 358PR036 ..... **$7.00**

Conductive PCB Handling Tray

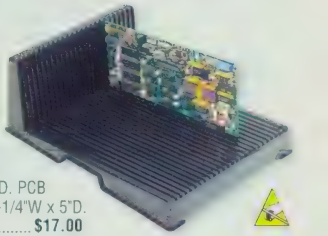
The conductive angle rack measures 7"W x 20"L and weighs 2 lbs. Has 20 easy-load angle slots, measuring .125" x .325" on a .750" pitch. These heavy-duty PCB carriers each have two convenient carrying handles. Made of conductive polypropylene. ESD protected, tolerates 185°F. **(USA)**



No. 358ST020..... **$15.00**
No. 358PR035 ..... **10.00**

Conductive Angle-Rak

This slotted, PCB-handling rack holds boards on two sides. Made of conductive polypropylene, features include: 25 slots; .4" pitch grooves; drainage holes in base.

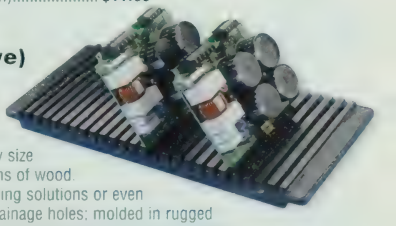


Groove Dimensions: .100"W x .187"D. PCB Cap.: 12"W x 15"D. **Size:** 14"L x 10-1/4"W x 5"D.
No. 358ST160 ..... **$17.00**

Groove Dimensions: .125"W x .200D. PCB Cap: 5"W x 7"D. **Size:** 10"L x 8"W x 3.5"D.
No. 358ST100 (Not Shown)..... **$11.00**

Rack-Alls (Non-Conductive)

These one-sided circuit board racks are the answer to the slotted wooden board– the same easy-to-use racking of any size board without the problems of wood. Unaffected by acids, cleaning solutions or even temperatures to 350°F. Drainage holes; molded in rugged phenolic which never warps; undercut ends for easy carrying. Easy loading and unloading. Cap.: 25 boards. Wt.: 1-1/2 lbs. Dims: 14-1/4"L x 6W" x 1"D. Slot Dimensions: 3/16" W x 5/16" D. (1/2" pitch)



No. 358ST164 ..... **$28.00**

Whisper Quiet Operation!

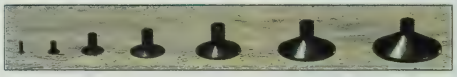
TECHNI-STAT

Tec-Wand II™ SMD-Vac™

This all-purpose vacuum handling tool is ESD safe and plugs directly into any 110 VAC outlet. This unit will handle all your surface mount components and features a long-life diaphragm pump that generates five-plus inches of mercury. Includes: 4' vacuum hose; Set of seven vacuum tips: one 2.4mm plastic tube, two 3.2mm(1/8"), two 6.4mm(1/4"), two 9.5mm(3/8") cups. Vacuum pickup handle, rubber no-skid feet. Dim. 3" x 6" x 2-1/2"; 3-wire cord. **(USA)**

Vacuum and Pick-up with Handle Holder

No. 847PR810 110VAC (Shown) **$123.50**
No. 847PR800 110VAC without holder **$120.55**
No. 847PR801 220VAC without holder **$120.55**



FOR QUANTITY PRICING ON VACUUM CUPS CALL YOUR SALES REPRESENTATIVE AT... 1-610-941-2400 TODAY!

Vacuum Cups

ESD-SAFE, High-Temperature/Composition: Silicone Rubber; Color: Black; Surface Resistance: 10^8 Ω; Operating Temperature: -55° to 230°C.

No. 847PA006 3/32" **$1.95**
No. 847PA013 1/8" **$1.95**
No. 847PA025 1/4" **$1.95**
No. 847PA039 3/8" **$1.95**
No. 847PA905 1/2" **$1.95**
No. 847PA062 5/8" **$2.25**
No. 847PA075 3/4" **$2.50**

High-Temperature Vacuum Cups

Composition: Silicone Rubber; Color: Blue; Surface Resistance: >10^{15} Ω; Operating Temperature: -55° to 250°C.

No. 847PA064 3/32" **$1.95**
No. 847PA012 1/8" **$1.95**
No. 847PA902 1/4" **$1.95**
No. 847PA038 3/8" **$1.95**
No. 847PA050 1/2" **$1.95**
No. 847PA063 5/8" **$2.25**
No. 847PA076 3/4" **$2.50**

Non-Marking, Static Dissipative Cups

Composition: Buna-N.; Color: Black; Surface Resistance: 10^{13} Ω; Operating Temperature: 20°to 120°C.

No. 847ST006 3/32" **$1.95**
No. 847ST012 1/8" **$1.95**
No. 847ST025 1/4" **$1.95**
No. 847ST038 3/8" **$1.95**
No. 847ST050 1/2" **$1.95**
No. 847ST062 5/8" **$2.25**
No. 847ST075 3/4" **$2.50**

Perfect for SMT Application!

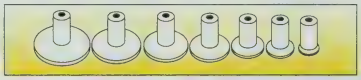
Vacuum Parts Handling System

Techni-Tool's Vacuum parts handling system is compact, yet rugged. Handles all types of delicate parts—won't chip or scratch components. Double-insulated (120V, 60Hz, 2-wire) with variable vacuum attachment that produces 14" (Hg) vacuum at 125 cubic inches/minute. Ready to plug in, an assortment of five popular tips, bypass probe, an in-line filter. **(USA)**

A
B
E F G H J K L

No. 758MI014 Complete System, 2 Wire **$65.00**
No. 758MI016 Complete System, 3 Wire **$84.10**
A. **No. 780MI010** Pump only (2 wire) 110V, 60Hz **$52.30**
B. **No. 122PR058** Vacuum Probe Only **$19.95**
No. 758MI012 220V, 50Hz. (2 wire only) Complete Unit **$75.50**
No. 780MI012 Pump only (3 wire) 110 V, 60Hz **$62.25**
K. **No. 160MI012** Filters each **$5.25**
L. **No. 160MI014** Clear Tubing/6 ft. **$1.50**
No. 758MI010 Fitting *(Not included in system)*
1/8" x 27NPT (For Shop Air) **$1.50**

Style	Tip No.	I.D.	O.D.	Metal Needle	All Plastic	PRICE
H	122PR052	.011	.024	X	Plastic Tip	$4.30
H	122PR054	.015	.043	X	Plastic Tip	$4.30
H	122PR010	.023	.038	X	Plastic Tip	$4.30
E	122PR012	.03	.10		X	$2.55
E	122PR014	.06	.12		X	$2.55
G	122PR018	.03	.10		X	$3.25
G	122PR020	.06	.12		X	$3.25
F	122PR022	.12	.19		X	$3.25
J	122PR028	.010	.020	X		$2.40
J	122PR030	.013	.025	X		$2.40
J	122PR032	.016	.028	X		$2.40
J	122PR034	.020	.032	X		$2.40
J	122PR036	.025	.036	X		$2.40
J	122PR038	.033	.050	X		$2.40
J	122PR042	.045	.064	X		$2.40
J	122PR044	.052	.071	X		$2.40



Vacuum Pickup Cups

Available in the following sizes: 9/16", 1/2", 7/16", 3/8", 5/16", 1/4" and 3/16". Use No. 122PR044 tip.

No. 122PR112 7 Teflon Cups **$66.20**
No. 122PR116 Teflon-1/4" **$8.90**
No. 122PR082 Set of 7 Rubber Cups **$11.30**

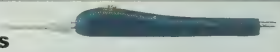
Rubber Cups Max Temp. 300°F.
(1-11) $1.75 ea (12+) $1.50 ea.

No. 122PR094 Size 3/8" **No. 122PR096** Size 5/16"
No. 122PR088 Size 1/4" **No. 122PR098** Size 7/16"
No. 122PR092 Size 3/16" **No. 122PR100** Size 9/16"

Micro Cups Neoprene Rubber Tip. Use No.122PR030 tips for Micro Cups. Each: **$1.75**

No. 122PR070 Size 1/16" **No. 122PR078** Size 3/16"
No. 122PR074 Size 1/8" **No. 122PR072** Size 1/4"

No. 122PR076 Set of 4 with tip **$5.15/set**



Probes

Vacuum Button-Type

Continuous vacuum flow. Depress button to stop vacuum flow. Hand-contoured. Anodized, cast aluminum. Includes 6 ft. of flexible tubing, tube fitting No. 758MI010 & Style E probe tip included. 4-1/2" OAL.
No. 122PR066 ..... **$69.95**

Vacuum By-Pass

By-pass hole is covered with finger to allow vacuum flow through probe tip. Hand-contoured. Anodized, cast aluminum. Includes 6 ft. of flexible tubing, tube fitting No. 758MI010 & Style E probe tip included. 4-3/4" OAL.
No. 122PR064 4-3/4" OAL **$24.80**

Vacuum Transducer

Converts available air source to vacuum. Will produce 22" Hg. vacuum at 60psig.
No. 122PR128 ..... **$33.45**

SALE!

Tec-Wand Wafer Tools

Vacuum actuated. Designed for wafer fabrication and transfer. Tips can be rotated 360° without loss of vacuum. Operates at 15" to 27" (Hg) of vacuum. Safe for cleanroom. Lightweight, easy button actuation. All metallic parts are plated or stainless steel.

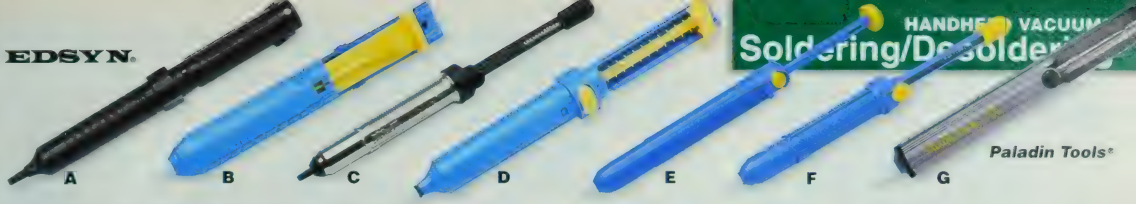
Vacuum Probe: Self-Contained Vacuum Transducer in handle. Operates on 30 psi air pressure produces 15" to 27"(Hg) of vacuum.
No. 176TW500 ..... **$195.00**

Press-Fit Teflon Coated Aluminum Wafer Tips

These wafer tips are Teflon-coated aluminum for high-temp applications up to 250°C. The wafer-handling tips come complete with a 3" long, straight, stainless steel .094" diameter tube and fitting to connect to press fit wafer wands.

For wafers up to four inches in diameter.
No. 847PR075 ..... **$74.25**
For wafers up to six inches in diameter.
No. 847PR110 ..... **$74.25**
For wafers up to eight inches in diameter.
No. 847PR125 ..... **$74.25**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400



A. Edsyn SS350 Challenger Soldapullt

One hand operation, metric barrel. Wt. 1.5 oz.

No. 330ED351 Low static standard **$9.45**

Replacement Tip for 330ED351

No. 330ED363 ..... (1-24) **$5.35** (25-49) **$5.10** (50+) **$4.95**

No. 330ED298 "O" ring for 330ED351 ..... **$.85**

B. Edsyn Universal Soldapullt®

Adjustable three-position loading stroke, low-mass plunger, rapid vacuum impulse. Plastic construction. Wt. 2.0 oz.

No. 330ED370..... (1-5) **$10.45** (6-11) **$9.20** (12+) **$8.10** (25+) **Call**

Replacement Tip for 330ED370

No. 330ED340 ..... (1-5) **$2.95** (6-11) **$2.75** (12+) **$2.65**

No. 330ED284 "O" ring for 330ED370 ..... **$.85**

C. Edsyn Silverstat® Plastic Construction

For low static work stations. Static conductive. Reduces sensitive component damage.

No. 330ED028 ..... (1-5) $27.90 (6-11) $26.50 (12+) $25.10 (25+)**Call**

No. 330ED212 Replacement Tip for 330ED028 ..... **$5.35**

No. 330ED284 "O" ring for 330ED028..... **$.85**

D. Edsyn SS750 Challenger Plastic Construction

Single full stroke plunger and cleaning shaft for maximum vacuum flow. Soft push trigger. Powerful vacuum. Easy loading. **(USA) No. 330ED750 $6.90**

No. 330ED751 Replacement Tip **$1.30**

No. 330ED298 "O" ring fits 330ED750..... **$.85**

E. Edsyn Soldapullt® III Low Static

Sturdy tool for routine desoldering. Slim profile, smooth action, very low recoil. Plunger lock for compact storage. Wt. 2.5 oz.

No. 330ED306 ..... (1-5) **$14.35** (6-11) **$13.95** (12+) **$12.95** (25+) **Call**

No. 330ED296 "O" ring fits 330ED306 ..... **$0.85**

Replacement Tip for 330ED306

No. 330ED340 ..... (1-5) **$2.95** (6-11) **$2.75** (12+) **$2.65**

F. Edsyn Deluxe Soldapullt® Plastic Construction

Rugged, manual-loading tool for volume desoldering. High vacuum, heavy-duty plastic. Fully-enclosed shaft for safety. Plunger lock for compact storage. No. 330ED340 Replacement Tip; "O" ring No. 330ED284. Wt. 3.5 oz.

No. 330ED082 (1-5) **$18.25** (6-11) **$16.95** (12+) **$16.00** (25+) **Call**

No. 330ED284 "O" ring fits 330ED082 ..... **$.85**

Replacement Tip for 330ED082

No. 330ED340..... (1-5) **$2.95** (6-11) **$2.75** (12+) **$2.65**

G. Paladin All Metal Desolder Pump

Compact tool for desoldering. Safety release prevents recoil damage. Increased suction power prevents solder from choking nozzle. One-hand operation. Easily-exchangeable teflon nozzle with extra-long service life.

Includes: three Neoprene "O" rings. 8" OAL.

No. 618TI016 ..... **$16.80**

No. 618TI028 Replacement Tip **$5.20**

Vacuums & Handpiks

Vampire Vacuum

The hand-held SMD vacuum pickup tool is ideal for picking up and moving electronic components, large or small. With fountain pen dimensions, the *VAMPIRE* fits easily into your hand or pocket. And its new high-power probes have longer holding action. **Features include:** ergonomic comfort design; ESD Safe ≤100KΩ; lift up to 120g; heavy duty internal piston; Three high power probes: Angled & Straight & 4mm cup.

No. 784PR444 ..... **$45.90**

No. 784AC555 Replacement Cup Kit **$25.50**

Pace Handipik

The PACE HandiPik Component Handling Wand is a self-contained, hand-held device which allows the operator to quickly and easily pick up and place a wide variety of electronic components. The wand may be conveniently stored in a PACE Handpiece Redi-Rak.

PACE

No. 612PT702 ..... **$37.10**

Bulb-Vac™ Vacuum Tool

The Bulb-Vac™ is an inexpensive tool that no assembler should be without. Good for surface mount components this soft bulb fits comfortably in your hand and can easily handle up to 3-ounce objects. Features a totally self-contained vacuum with no batteries to be replaced. 3.5" OAL. **(USA)**

No. 847ST039 3/8" Cup **$9.95**

No. 847ST051 1/2" Cup **$9.95**

Mini-Vac™ Handling Tool

The Mini-Vac™ is a totally self-contained vacuum good for handling surface mount components. Comes with a set of four twist on probes that can easily handle up to 3-ounce objects. The soft pliable squeeze bulb is treated with "ACL" staticide topical anti-stat. **Includes:** (1) 1/4" cup, (1) 3/8" cup, (2) 1/8" cup. **(USA)**

No. 847PR101 ..... $12.70

Techni-Stat® Pen-Vacs™

TECHNI-STAT

This pen-sized, low-cost vacuum tool is aluminum finished and lifts up to 300g without batteries or hoses. Pen-Vac eliminates handling small parts with fingers or tweezers.

Economy Kit - 4 Tips

Includes: Pen-sized vacuum, (1) straight probe w/ 1/4" cup, (3) bent probes w/cup sizes: (1) 1/8", (2) 1/4", (1) 3/8". **(USA)**

No. 847PR890 ESD Safe **$53.80**

No. 847PR010 NON ESD **$41.00**

Deluxe Kit - 6 Tips ***ESD Safe!***

Includes: one Pen-Vac vacuum tool plus set of six tips: (2) 3.17mm (1/8"), (2) 6.35mm (1/4"), (2) 9.52mm (3/8") mounted on 12.7mm (1/2") probes. 5.75" OAL. ESD Safe. **(USA)**

No. 847PR902 Kit **$56.90**

No. 847PR904 Pen VAC Only..... **$47.15**

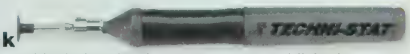
Pen-Vac® Pro-Series

This rugged all plastic static-dissipative pen vac has all metal ESD safe vacuum probes: two straight and two angled. The vacuum cups are high temperature ESD safe silicone rubber. Resistance from vacuum cup to plastic body is 10^{10} to $10^{11}\Omega$/sq. Vacuum cup sizes are 1/8", 1/4", 3/8" and 1/2" diameter. Lifts up to 500 grams. **(USA)**

No. 847ST892 Gray **$29.95**

No. 847ST891 Black **$29.95**

Vacuum Pick



This vacuum pick up tool is designed to have a very easy and light depress to pick up. The probes and cups can be stored in the tail. **Specs:** Small 3.5 mm lifts up to 4g; Medium 6.5 mm lifts up to 50g; Large 9.5 mm lifts up to 130g. (Japan)

No. 445PR831 ..... **$19.50**

Tec-Wik® ESD Desolder Braid

Made of oxide-free clean copper with pure type - "R" Resin Flux. our braid is designed to leave only environmentally safe residue. Available in 5', 10', 25',100', and 500 foot lengths. *Mfg to SPC Guidelines. Meets MIL-F-14256,Type R and ANIS/I-STD-004.*

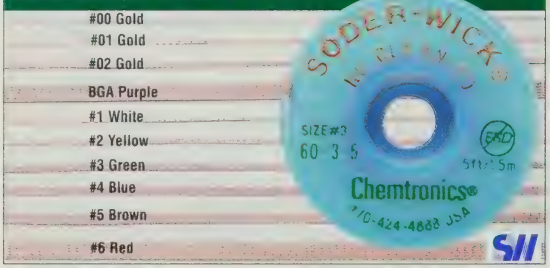
Size	No.	Size	Code	Width	1-24	25-99	100+
	325SO001	1	Gray	.025	$1.95	$1.71	$1.62
	325SO002	2	Yellow	.050	$1.95	$1.71	$1.62
5 ft.	325SO003	3	Green	.075	$2.00	$1.76	$1.67
	325SO004	4	Blue	.100	$2.10	$1.85	$1.76
	325SO005	5	Brown	.125	$2.45	$2.14	$2.03
	325SO006	1	Gray	.025	$3.35	$2.99	$2.80
	325SO007	2	Yellow	.050	$3.35	$2.99	$2.80
10 ft.	325SO008	3	Green	.075	$3.45	$2.99	$2.84
	325SO009	4	Blue	.100	$3.75	$3.28	$3.11
	325SO010	5	Brown	.125	$4.00	$3.46	$3.27

Tec-Wik® No Clean Desolder Braid

Desolder braid made from oxide-free clear copper the flux residue left on the board doesn't need to be cleaned. For best results use with RMA-type No-Clean fluxes. Available in 5', 10', 25',100', and 500 foot lengths. *Mfg to SPC Guidelines. Meets ANSI/J-STD-004 and MIL STD 2000.*

Size	No.	Size	Code	Width	1-24	25-99	100+
	325SO020	1	Gray	.025	$2.40	$1.95	$1.85
	325SO021	2	Yellow	.050	$2.40	$1.95	$1.85
5 ft.	325SO022	3	Green	.075	$2.35	$2.04	$1.94
	325SO023	4	Blue	.100	$2.40	$2.33	$2.21
	325SO024	5	Brown	.125	$3.10	$2.57	$2.43
	325SO025	1	Gray	.025	$3.80	$3.28	$3.11
	325SO026	2	Yellow	.050	$3.80	$3.28	$3.11
10 ft.	325SO027	3	Green	.075	$3.70	$3.34	$3.04
	325SO028	4	Blue	.100	$4.10	$3.66	$3.47
	325SO029	5	Brown	.125	$4.55	$3.90	$3.69

Soder-Wick® Braids



Soder-Wick's geometrically-precise weave allows for maximum capillary wicking action and solder capacity. *Soder-Wick* desoldering braid optimizes heat transfer through the braid and into the solder joint, resulting in faster wicking action than any other competitive braid. Minimal flux residue on the board speeds up the cleaning process, or eliminates it entirely. *Soder-Wick* braid meets or exceeds *Mil-F-14256E+F, NASA SP-5002, Mil-B-81705C and Mil-Std-2000A.*

Soder-Wick® Rosin SD Blue Bobbin

Size	No.	Size	Code	Width	1-24	25-99	100-499
	728SO801	1	White	.030"	$2.20	$2.10	$1.95
	728SO802	2	Yellow	.050"	$2.20	$2.10	$1.95
5 ft.	728SO803	3	Green	.075	$2.55	$2.25	$2.10
	728SO804	4	Blue	.100"	$2.55	$2.45	$2.30
	728SO805	5	Brown	.150"	$2.80	$2.50	$2.35
	728SO806	6	Red	.175"	$3.20	$2.85	$2.70
	728SO8011	1	White	.030"	$3.95	$3.55	$3.35
	728SO8021	2	Yellow	.050"	$3.95	$3.60	$3.45
10 ft.	728SO8031	3	Green	.075"	$4.10	$3.60	$3.70
	728SO8041	4	Blue	.100"	$4.60	$4.10	$3.85
	728SO8051	5	Brown	.150"	$5.10	$4.35	$4.10

Soder-Wick® SMT Rosin Blue Bobbin

No.	Size	Color	Application	1-24	25-99	100-499
237SO900	00	Gold 022	For RNC Pitch Control	$2.85	$2.65	$2.45

Soder-Wick® No Clean Spools

Size	No.	Size	Color	Width	Pad	1-24	25-99	100-499
	237SO652	2	Yellow	.050"	Small	$10.25	$9.50	$8.75
25 ft.	237SO653	3	Green	.075	Medium	$10.95	$10.15	$9.35
	237SO654	4	Blue	.100"	Large	$12.15	$11.25	$10.35
100 ft.	237SO541	4	Blue	.100"	Large	$46.55	$43.10	$39.60

Lead Free Tip Tinner

No-Clean and Water Soluble Fluxes allow buildup of oxides on the tip, causing poor thermal heat transfer and dewetting of the tip surface reducing tip life. *Tip Tinner* prolongs tip life and is ESD safe. Rosin Free. Lead Free. Residue Free and environmentally safe. **(USA) No. 674SO015** 1/2 oz .... **$4.95 each**
No. 674SO200 1-1/2 oz .. **$6.95 each**

Soder-Wick® No Clean SD - All 5' length Blue Bobbin

No.	Size	Color	Application	Width	1-24	25-99	100-499
728SO601	1	White	Micro circuits	.030"	$2.55	$2.25	$2.05
728SO602	2	Yellow	Small pads	.050"	$2.55	$2.25	$2.05
728SO603	3	Green	Medium Pads	.075"	$2.60	$2.35	$2.20
728SO604	4	Blue	Large pads	.100"	$3.00	$2.65	$2.50
728SO605	5	Brown	Terminals	.150"	$3.30	$2.95	$2.80
728SO606	6	Red	Lg. lugs&wire conn.	.175"	$3.55	$3.10	$2.90

Soder-Wick® Rosin Clear Bobbin

Size	No.	Size	Code	Width	1-24	25-99	100-499
	728SO046	1	White	.030"	$2.20	$1.90	$1.80
	728SO052	2	Yellow	.050"	$2.20	$1.90	$1.80
5 ft.	728SO058	3	Green	.075"	$2.25	$2.05	$1.90
	728SO064	4	Blue	.100"	$2.55	$2.30	$2.15
	728SO068	5	Brown	.150"	$2.85	$2.50	$2.20
	728SO076	6	Red	.175"	$3.10	$2.85	$2.70
	728SO044	1	White	.030"	$3.95	$3.55	$3.30
	728SO050	2	Yellow	.050"	$3.95	$3.55	$3.30
10 ft.	728SO056	3	Green	.075"	$4.05	$3.60	$3.40
	728SO062	4	Blue	.100"	$4.60	$4.00	$3.80
	237SO125	1	White	.030"	$10.30	$8.90	$8.40
	237SO225	2	Yellow	.050"	$10.30	$8.90	$8.40
	237SO325	3	Green	.075"	$10.55	$9.00	$8.76
25 ft.	237SO425	4	Blue	.100"	$11.70	$10.30	$9.95
	237SO525	5	Brown	.150"	$13.10	$11.50	$11.10
	237SO625	6	Red	.175"	$13.90	$12.25	$11.82

Soder-Wick® BGA Braid VacuPak™ Cans

Each can holds 10 bobbins, each containing 5' of braid.

No. 237SO600 No Clean (60 Series)..... **$40.10**
No. 237SO800 Rosin Fluxed (80 Series) **$36.40**

Blue Bobbin

TIX Solder

TIX Solder, compared to other soft solders, is higher in price due to the rare elements in the alloy and the fact that it will do jobs no other solder can do. TIX Solder melts at 275°F or 100° lower than lead-tin solders; it also has a much higher wetting ability. They specific gravity is 8.6; freezing point 267.8°F; bonding holding strength is 4,000lbs. P.S.I.; electric conductivity, IAS vs. Copper 7.3. TIX Solder will never tarnish; contains no silver or bismuth and will solder to Platinum, Gold, Silver, Stainless Steel, Alnico, Pewter, and numerous alloys. Solid state components can be soldered without using a heat sink. Repairs to printed circuit boards are simple as the low melting will not damage the board. TIX Solder may be used with any flux, rosin, chloride or acid.

Standard Size - 125 grains, approximately 20 3-inch sticks; .030m dia.
No. 132SO026 ..... **$9.95**

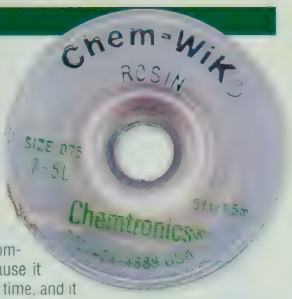
Economy Size - 375 grains, approximately 78 3-inch sticks; 0.30 dia.
No. 132SO028 ..... **$27.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Desoldering Braids

Desolders 50% Faster, Even At Low Temperatures!

Chem-Wik® Rosin



Chem-Wik Rosin is an advanced, ultra-thin desoldering wick that responds as much as 50% faster than conventional desoldering braids. Its lighter mass, pure copper braid construction allows for better thermal conductivity, even at low temperatures. Overheating of critical heat-sensitive components and circuits is minimized because it requires less heat for a shorter period of time, and it also requires less contact pressure for greater operator comfort. Effectively removes all solder from through-hole, surface mount and BGA components and pads, while preventing shorts by removing solder bridges, cleans etched script for positive identification and removing unwanted solder from edge connectors, fingers, wrap-pins, lugs and terminals.

(*Chem-Wik* is braided in a temperature/humidity controlled environment using only the finest oxygen-free, oil-free metal.) The braiding pattern is a uniquely designed geometric weave for maximum speed and solder holding capacity. An ultrasonically applied, pure white rosin flux is laminated onto the entire braid to protect against oxidation and to promote solderability. Conforms to all the qualitative requirements of the following specifications: *MIL-F-14256E Type R.; NASA NHB 5300.4 (3A); NASA SP--5002; NASA NPC 200-4.* **(USA)**

Chem-Wik® Rosin Clear Bobbin

Size	No.	Size	Code	Width	1-24	25-99	100-499
	237S0052	1	Gray	.030"	$2.10	$1.80	$1.65
	237S0064	2	Yellow	.050"	$2.10	$1.80	$1.65
5 ft.	237S0076	3	Green	.075"	$2.15	$1.90	$1.83
	237S0016	4	Blue	.100"	$2.30	$2.05	$1.90
	237S0050	1	Gray	.030"	$9.00	$7.70	$7.55
	237S0062	2	Yellow	.050"	$9.00	$7.70	$7.55
25 ft	237S0074	3	Green	.075"	$9.35	$7.85	$7.35
	237S0014	4	Blue	.100"	$9.95	$8.60	$7.90
	237S0065	1	Gray	.030"	$17.80	$15.80	$14.95
	237S0066	2	Yellow	.050"	$17.80	$15.80	$14.95
50 ft.	237S0078	3	Green	.075"	$18.60	$16.25	$15.40
	237S0018	4	Blue	.100"	$20.00	$18.00	$17.35
	237S0020	1	Gray	.030"	$35.90	$32.55	$31.75
	237S0060	2	Yellow	.050"	$35.90	$32.55	$31.75
100 ft.	237S0086	3	Green	.075"	$37.25	$34.40	$33.50
	237S0012	4	Blue	.100"	$39.95	$36.30	$35.35
	237S0024	1	Gray	.030"	$174.00	$152.95	$148.95
	237S0025	2	Yellow	.050"	$174.00	$152.95	$148.95
500 ft.	237S0027	3	Green	.075"	$180.95	$162.95	$158.45
	237S0029	4	Blue	.100"	$193.65	$171.75	$167.45

One-Step No Clean 63/37 Solder

This no-clean flux core has excellent solderability and wetting action. Residue removal is not required or recommended. Conforms to Bellcore specification GR-78-CORE (3TR-NWT-000078), IPC-SF818 Type LR 3CN and ANSI/J-STD-006 specifications. Available in .031" and .020" diameters. 63% tin and 37% lead for eutectic characteristics. Flux core is 2% of total weight. **(USA)**

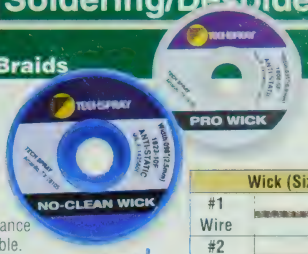
No. 325S0055 .020" dia .... **$1.85** **No. 325S0059** .020" dia. anti-static **$2.10**
No. 325S0056 .031" dia .... **$1.85** **No. 325S0060** .031" dia. anti-static **$2.10**

Sea-Step Water Soluble Solder

This water-washable flux core is excellent solderability and wetting action. Conforms to IPC-SF818 Type H3C, and ANSI/J-STD-006 specifications. Available in .031" and .020" diameters. 63% tin and 37% lead for eutectic characteristics. Flux core is 2% of total weight. **(USA)**

No. 325S0057 .020" dia **$1.85**
No. 325S0058 .031" dia. **$1.85**
No. 325S0061 .020" dia. anti-static **$2.10**
No. 325S0062 .031" dia. anti-static **$2.10**

Tech-Spray Desoldering Braids



New!

Today's rework applications demand precision desoldering. Components and boards are easily damaged by heat, and only the highest perfomance desoldering are acceptable. ProWick® & No-Clean Wick are produced with an advanced braid design and stringent quality control procedures. ProWick® is based on pure rosin (Type R Flux). This flux meets all of the most stringent soldering standards for worldwide applications: MIL-F-142560D Type R, NASA specification NHB5300.4,NPC200-4 and SP-5002.

Wick (Size)
#1 Wire
#2 Wire
#3 Wire
#4 Wire
#5 Wire
#6 Wire

ProWick® Anti-Static Bobbin

Size	No.	Size	Code	Width	1-24	25-99	100-499
	754S0188	1	White	.030"	$2.00	$1.86	$1.74
	754S0809	2	Yellow	.060"	$2.00	$1.86	$1.74
5 ft.	754S0110	3	Green	.085"	$2.20	$2.03	$1.91
	754S0111	4	Blue	.100"	$2.45	$2.27	$2.13
	754S0112	5	Brown	.145"	$2.60	$2.40	$2.26
	754S0184	1	White	.030"	$3.65	$3.38	$3.18
	754S0220	2	Yellow	.060"	$3.65	$3.38	$3.18
10 ft.	754S0187	3	Green	.085"	$3.70	$3.42	$3.22
	754S0197	4	Blue	.100"	$4.10	$3.79	$3.57
	754S0189	5	Brown	.145"	$4.70	$4.35	$4.09

No Clean Wick

Size	No.	Size	Code	Width	1-24	25-99	100-499
	754S0190	1	White	.030	$4.30	$3.98	$3.74
10 ft.	754S0510	2	Yellow	.060"	$4.30	$3.98	$3.74
	754S0191	3	Green	.085"	$4.40	$4.07	$3.83
	754S0710	4	Blue	.100"	$4.80	$4.44	$4.18
	754S0813	1	White	.030"	$10.55	$9.76	$9.18
25 ft.	754S0525	2	Yellow	.060	$10.55	$9.76	$9.18
	754CH1816	3	Green	.085"	$10.55	$9.76	$9.18
	754S0725	4	Blue	.100"	$11.85	$10.96	$10.31
	754S0814	1	White	.030	$18.75	$17.34	$16.31
50 ft.	754S0192	2	Yellow	.060	$18.75	$17.34	$16.31
	754S0193	3	Green	.085"	$18.75	$17.34	$16.31
	754S0817	4	Blue	.100	$23.00	$21.27	$20.01
	754S0194	1	White	.030	$36.40	$33.67	$31.67
100 ft.	754S0181	2	Yellow	.060	$36.40	$33.67	$31.67
	754S0195	3	Green	.085	$36.40	$33.67	$31.67
	754S0196	4	Blue	.100	$40.20	$37.18	$34.97

Wickgun™

Wickgun™ desoldering braid dispensers combine the capabilities of desoldering braid with the convenience of a hand tool. Simple one-handed operation dispenses, positions and cuts off braid, even the smaller hard-to-control sizes. You never touch the braid. You don't burn your fingers. Features replaceable interchangeable cassettes, factory loaded with 15 foot (4.6 meter) lengths of pure copper braid impregnated with water clear flux. *Meets MIL-STD-1686*

Dispenser
No. 892PR101 #4 Desoldering Braid **$37.75**
Replacement Cassette
No. 892S0154 #4 Braid **$7.80**

3M Circuit Board Fabrication Tapes

Description

3M 851 Polyester Fabrication Tape
3.1 mil green polyester/S/R blend tape for circuit board fabrication and for performance silicone plating. Temp. Range: 40°F to 170°F. 72 yard roll. *(Other Sizes Available)*

No. 105ST518 3/4" $16.15
No. 105ST815 1" $20.15
No. 105ST851 1-1/2" $30.20

Scotch™ 1279 Orange Economy Silicone Plating Tape
3.1 mil amber polyester/S/R blend for performance silicone plating. Temp Range: -60°F to 350°F. 144 yard roll.

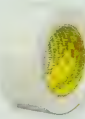
No. 105ST1280 1" .... $24.55 No. 105ST1279 1-1/2" $36.80

Scotch™ 1280 Premium Circuit Plating Tape
3.3 mil red transparent film with a special, extra-heavy adhesive that provides a superior, straight stop-off line for gold contacts on printed circuit boards. Undercutting and leakers are reduced. Temp. range: 40°F to 170°F. 72 yard roll. **(USA)**

No. 105PR280 1/2" .. $9.75 No. 105PR2801 1" .. $16.30
No. 105PR128 3/4" $13.00 No. 105PR1280 2" .. $32.60

3M Electroplating and Masking Tape

Description



Scotch™ 470 Electroplating Tape
1.5 mil tan transparent vinyl tape highly comfortable and abrasion resistant, this tape also has excellent resistance to most chemicals used in electroplating. 470 is not recommended for prolonged exposure above 77°C and is vulnerable to kenotes, chlorinated hydrocarbons and esters. Temp. Range up to 170°F.

No. 105PR4703 3/4" x 36 yds. $11.00
No. 105PR4701 1" x 36 yds..... $13.75
No. 105CH470 2" x 36 yds. $27.50

3M 480 Electroplating/Anodizing Tape
1.5 mil yellow transparent film, rubber-resin backed. Conformable and abrasion resistant tape for masking various surfaces during electroplating and anodizing operations. While 484 tape resists most common solvents, care should be taken to avoid ketones, chlorinated hydrocarbons and esters found in many lacquer thinners.

No. 105PR4801 1" x 36 yds. $15.00
No. 105PR4802 2" x 36 yds. $30.00
No. 105PR4803 3" x 36 yds. $45.00

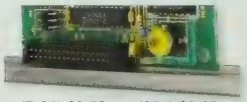
3M Velostat™ PCB Edge Protectors Shunting Bar

Safeguard PC Cards by electrically connecting the tabs or fingers to keep all leads at the same potential. 50/Pk.

Conductive Regular - 50/Pk.
No. 780ST204 4" $54.00
No. 780ST206 6" $73.50
No. 780ST208 8"..... $97.00

Conductive Hi-Temp - 50/Pk.
No. 780ST226 6"..... $93.00
No. 780ST228 8".....$132.00

APT Titanium Solder EdgeProtectors



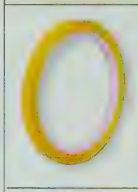
Slide-on feature masks gold fingers quickly for wavesoldering. **3/8"W x .062"T x OAL**

No. 159SO028 3" OAL	(1-6) $3.85	(7-24) $3.50	(25+) $3.25
No. 266SO028 6" OAL	(1-6) $7.65	(7-24) $5.85	(25+) $5.45
No. 266SO032 8" OAL	(1-6) $10.20	(7-24) $9.20	(25+) $8.70
No. 266SO010 10" OAL	(1-6) $11.00	(7-24) $8.75	(25+) $8.40
No. 266SO012 11" OAL	(1-6) $14.00	(7-24) $12.00	(25+) $10.00
No. 266SO016 13" OAL	(1-6) $13.00	(7-24) $11.00	(25+) $10.60
No. 266SO018 14" OAL	(1-6) $15.00	(7-24) $11.75	(25+) $11.25
No. 159SO018 18" OAL	(1-6) $22.95	(7-24) $20.70	(25+) $19.50
7/16"W x .062"T x OAL			
No. 266SO020 15" OAL	(1-6) $20.00	(7-24) $16.45	(25+) $15.55
No. 266SO030 7" OAL	(1-6) $9.00	(7-24) $6.95	(25+) $6.10

Other Sizes Available-Call!

3M Electronic Tapes

Description

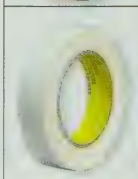


3M 42 Anti-Static Hi-Temp Masking Tape
Protect sensitive electronic components. The tape generates less than 50 volts on unwind and removal. Use in printed circuit board, high temperature, solder applications to mask gold fingers and board components; for dip & drag wave solder, and hand soldering. 3" anti-static plastic core. Temp.range: ≥40°F to 500°F. 36 yard roll.

No. 780ST042 1/4" . $11.85 No. 780ST046 1/2" $23.70
No. 780ST044 3/8" $17.80 No. 780ST048 3/4" $35.55

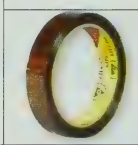
Scotch™ 5413 Polymide Film Tape
1 mil KAPTON® Type "H" hi-temp film tape. Flame, radiation and chemical resistant. Backing does not soften at elevated temperatures. Use at -100°F to 500°F. 36 yard roll

No. 105AD413 3/4" .. $40.30 No. 105ST415 1/2" .. $21.10
No. 105ST414 3/8" .. $20.15 No. 105ST416 1" $42.10



Scotch™ 5414 Water Soluble Wave Solder Tape
1.3 mil transparent PVA/synthetic tape which is water soluble and designed to mask gold finger areas of printed circuit boards during wave soldering; dissolves completely away during typical in-line aqueous cleaning operations. Tape is biodegradable and neutral in pH. Packaged in a moisture-impervious foil bag. Temp range: 0°F to 500°F. 36 yard roll.

No. 105PR5414 1/2" $27.15
No. 105AD414 3/4"..... $40.80
No. 105ST514 1" $41.75



3M 5419 Electronic Film Tape
2.7 mil amber colored polyimide/silicone film tape for low static wave soldering. Temp. range: -100°F to 500°F. 36 yard roll.

No. 105ST419 3/8" .. $16.10 No. 105ST421 3/4"... $32.15
No. 105ST420 1/2" .. $21.45 No. 105ST422 1" $42.90

3M High Temperature Polymide Film Tape
Used in applications such as coils, harnesses, and capacitors. Solvent resistant, high dielectric strength (7000V). Meets UL 510-Acrylic Adhesive.

Acrylic Adhesive
No. 105AD205 3/4"W x 36 yd. roll. $26.90

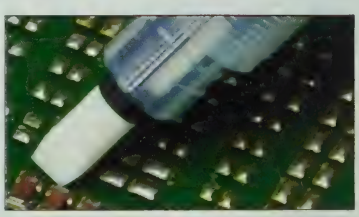
Silicone Adhesive
No. 105PR1436 1/4"W x 36 yd. roll. $10.10
No. 105PR1236 1/2"W x 36 yd. roll. $20.15
No. 105PR3436 3/4"W x 36 yd. roll. $30.25
No. 105PR3836 3/8"W x 36 yd. roll. $15.15
No. 105PR5836 5/8"W x 36 yd. roll. $25.20
No. 105PR7836 7/8"W x 36 yd. roll. $35.30
No. 105PR136 1"W x 36 yd. roll. $40.35

Solder-It Silver Solder Past

This 1lb silver bearing solder paste is 5 times stronger than conventional solder, and is convenient and easy to apply. Works with a match, lighter, soldering iron or torch. Provided in a handy, no mess, no waste, disposable syringe. **(USA)**

No. 858SO745..... $5.55

Flux Dispenser Pens



This 7CC, low-cost flux pen provides you controlled application of flux without mess. It features a re-useable flux applicator and replaceable felt tip and cartridge. Use with Non-Wash, Wash or Strong Acid Flux. 5/pk. *(Flux not included.)*

No. 202PR012 Broad Spade Tip Pen..... $71.80
No. 202PR016 Large Fine Tip Pen..... $108.00
No. 202PR020 Replacement Cartridge $20.50

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Techni-Tool® Tape

Description

Kapton Tape

This high performance Polymide film tape provides the ultimate in printing circuit board protection. It is designed with both a conductive backing film and adhesive to minimize "static" effects during stripping and pealing. Features a specially formulated silicone adhesive that provides high temperature resistance and leaves no adhesive residue upon removal. **Specs:** Thickness: .0025"; Adhesive Thickness: .0015"; Operating Temperature Range: -100°F to 500°F; Carrier: .001" Polymide - Kapton; **(USA)**

No. 758ST808	1/8"	$7.15	No. 758ST813	1/2"	$18.35
No. 758ST809	1/4"	$9.60	No. 758ST814	3/4"	$27.80
No. 758ST811	3/8"	$14.45			

Kapton Film Tape

Used for flame resistant electrical insulation, wire and cable wrap, wire bundling termination, splicing of Hi-Temp reflective thermal insulating film. Excellent solder mask for circuit boards. Release surface for heated platens in heat sealing/laminations. **Specs:** Backing: Polymide; Adhesive: Silicone; Total Thickness: 2.5 mils; Tensile Strength: 30 lbs. 36 yd. roll.(USA)

No. 758PR159	1/4"	$6.80
No. 758PR160	3/8"	$8.85
No. 758PR161	1/2"	$12.90
No. 758PR162	3/4"	$18.35
No. 758PR163	1"	$24.30
No. 758PR164	7/8"	$22.35
No. 758PR165	5/8"	$14.80

Polyimide® Kapton Tape

Kapton tapes have been designed for both electronic and powder coating applications where temperature resistance of 500°F is required. Ideals for protecting areas from solder during reflow and hand soldering operations. **Specs:** Backing: Polymide (Kapton) Film 1 mil; Adhesive: Silicone; Thickness: 25 mil; Adhesion to steel: 36 oz./in.; Tensile: 30 lbs./in.; Color: Amber Transparent; Length: 36 yards. **(USA)**

No. 706PR025	1/4"	$4.70	No. 706PR750	3/4"	$14.10
No. 706PR037	3/8"	$6.80	No. 706PR100	1"	$17.85
No. 706PR050	1/2"	$8.95			

Polyester Film Tape

This tape has been designed for coating applications where temperature resistance up to 400°F required. The silicone adhesive system has been designed to resist heat. Fumes and chemicals, leaving sharp and distinct line separation. The tape removes easily and leaves no residue. Ideal for masking during plating operations. **Specs:** Backing: Polyester Film 1.0 mils; Adhesive: Silicone System 1.5 mils; Total Thickness: 2.5 mils; Adhesion to Steel: 35 oz. per inch; Color: Blue; Roll Lg: 72 yards. **(USA)**

No. 706PR900	1/4"	$6.60	No. 706PR902	3/4"	$9.90
No. 706PR901	1/2"	$6.60	No. 706PR903	1"	$10.90

Polyester Film Tape

This polyester film tape is a thin physically durable and has high dielectric strength. Conformable with excellent chemical, solvent and moisture resistance. **Specs:** Backing: Polyester Film; Tape Thickness: 2.2 mil; Adhesive: Thermo/Acrylic; Dielectric Strength: 7000V. 72 yd. Roll **(USA)**

No. 758PR155	1/4"	$4.55
No. 758PR156	1/2"	$8.50
No. 758PR157	3/4"	$12.55
No. 758PR158	1	$16.50

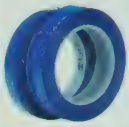
Polyimide Film Tape

This polyimide film tape if used for flame resistant electrical insulation, wire and cable wrap, wire bundling termination, and splicing of Hi-Temp reflective thermal insulating film. Excellent for soldering mask for circuit boards and features a heat resistant film that resists high heat of molten solder temperatures of 100°F - 500°F. **Specs:** Adhesive: Silicone; Total Thickness: 2.2mils Adhesion to Steel: 20 oz. / in.; Elongation: 60% min.; Tensile Strength: 23 lbs. / in. 36 yd. roll. **(USA)**

No. 758PR140	1/2	$9.15
No. 758PR141	3/8"	$7.20
No. 758PR142	3/4"	$13.80
No. 758PR143	1"	$18.30

Techni-Tool® Tape

Description



Blue Circuit Board Mask

This blue circuit board mask is excellent straight stop-off line for gold contacts on printed circuit boards. Specs: Backing: Polyester; Adhesive: Silicon; Thickness: 3 MIL; Heat Resistance: 350°F. **(USA)**

No. 758PR144	1/4" x 36 yds.	$5.85
No. 758PR145	1/8" x 36 yds.	$5.85
No. 758PR146	1/2" x 36 yds.	$11.70
No. 758PR147	3/4" x 36 yds.	$17.55
No. 758PR148	1" x 36 yds.	$23.35

Hot Air Leveling Tape

This high performance P.C. board tape provides clean removal on high temperature masking applications. Designed to fully protect gold or rhodium plated P.C. board finger contacts through flex and molten solder coating and hot air leveling. This tape is a saturated crepe paper reinforced with polyester film with an aggressive silicon adhesive with excellent chemical and hot solder resistance. **Specs:** Thickness: 8.1 mils; Backing Thickness: 6.5 mils; Temperature: 500°F 3-5 Seconds. **(USA)**

No. 758PR980	1/4"	$3.50	No. 758PR983	3/4"	$10.20
No. 758PR981	3/8"	$5.10	No. 758PR984	1"	$13.60
No. 758PR982	1/2"	$6.80			

Copper Foil Conductive Tape

This copper foil conductive tape is used to meet a variety of EMI/RFI shielding applications and as an add on for plating bars and gold fingers. It comes with a liner for easy die cutting. **Specs:** Backing Material: 1 oz. roll copper foil; Adhesive: Conductive Acrylic; Thickness: 3.5 mils; Tensile Strength: 35 lbs.; Electrical Resistance: 0.005Ω/in sq.; Operating Temperature: 155°C. **(USA)**

No. 758ST915	1/4"	$6.40	No. 758ST917	3/4"	$15.40
No. 758ST916	1/2"	$11.50	No. 758ST918	1"	$19.15

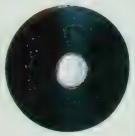
Techni-Stat® High Temp Masking Tape

Designed to be used were the application warrants low static charge. Coated with a aggressive non-staining natural adhesive which will stick to most clean and dry surfaces. Perfect for ware solder applications, it withstands 275°F exposure up to 45 min. and in some cases will replace KAPTON. **Specs:** Charge Decay Time: ≤ 2 secs; Anti-Static Copolymer Layer: 8 x 10^{11}; Thickness: 0.007"; Length/Roll: 60YDS; Surface Resistivity: 2 x 10^{10} Ω/sq.- 2 x 10^{11} Ω/sq.

No. 205ST530	1/2"W	$2.90	No. 205ST132	2"W	$9.55
No. 205ST430	3/4"W	$3.90	No. 205ST303	3"W	$11.90
No. 205ST013	1"W	$4.90			

Non-Soldering/ Standard Tapes

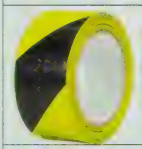
Description



Vinyl Tape

This color-coded sealing tape wraps for protection, and is water-proof. 5 mil. **(USA)**

No. 758PR149	Yellow	1/2"	$1.35
No. 758PR150	Yellow	1"	$2.20
No. 758PR151	White	1/2"	$1.35
No. 758PR152	White	1"	$2.20
No. 758PR153	Black	1/2"	$1.35
No. 758PR154	Black	1"	$2.20



Lane Marking Tape

Identify special or restricted floor areas around equipment or other designated areas with this Lane Marking Tape. A 5-mil vinyl tape with diagonal stripes. 3" x 36 yds. **(USA)**

No. 758PR804	Yellow/Black	$6.80
No. 758PR805	Red/White	$6.80
No. 758PR806	Green/White	$6.80

Double Face Film Tape

This double face film tape is used in the bonding of films, clear plastics, and more. Features an extremely aggressive acrylic adhesive offering service temperature for -10°F to 255°F, and application temperatures from 10°F to 120°F. **Specs:** Substrate: .5 mil Polyester Film; Thickness: 3.5 mils; Adhesive to Steel: 80 oz / in; Tensile Strength: 8 lbs./in; Elongation: 10%. 36 yds. **(USA)**

No. 758PR490	1/4"	$2.50	No. 758PR493	3/4"	$4.25
No. 758PR491	3/8"	$2.85	No. 758PR494	1"	$5.30
No. 758PR492	1/2"	$3.25			

Standard	Standard	Standard
No. 66 Regular	No. 58 Medium	No. 50 Small
FLUX	FLUX	FLUX
SOLDER	SOLDER	SOLDER
*3.3%	*2.2%	*1.1%

*Average weight percentage for Sn60Pb40 alloy. The average weight percentage will vary slightly depending on the density of the alloy.

245 No-Clean Rosin Core Solder - 1 lb. Spool

This mildly activated rosin core solder leaves a visually cleaner appearance after soldering.
Meets: Bellcore GR-78; ANSI/J-STD-006:Flux-ROLO

TT No.	Core	Tin-Lead Alloy	Dia. Inch	Gauge	PRICE PER LB. 1-19	20-49	50+
488SO807	50	60/40	.021	25	$11.50	$11.15	$10.81
488SO8809	50	60/40	.025	23	$24.25	$23.51	$22.80
488SO800	50	60/40	.031	21	$7.75	$7.52	$7.30
488SO8834	58	60/40	.020	25	$22.90	$22.19	$21.52
488SO8860	58	60/40	.025	23	$24.25	$23.51	$22.80
488SO8801	58	60/40	.031	21	$23.55	$22.85	$22.16
488SO816	66	62/36/2	.031	21	$23.85	$25.85	$24.34

331 Water Soluble Flux Core Solder - 1 lb. Spool

This water soluble solder has an organic flux core for soldering different metals. Residue is removed with soft or deionized water. *Meets: ANSI/J-STD-006:Flux-ORH1*

TT No.	Core	Tin-Lead Alloy	Dia. Inch	Gauge	PRICE PER LB. 1-19	20-49	50+
488SO401	66	60/40	.020	23	$19.55	$10.97	$10.64
488SO6417	66	60/40	.025	23	$24.25	$23.51	$22.80
488SO4064	66	60/40	.031	21	$15.40	$14.93	$14.48
488SO640	66	62/36/2	.031	21	$18.35	$17.82	$17.28
488SO6401	66	63/37	.020	25	$13.00	$12.64	$12.26
488SO6403	66	63/37	.031	21	$9.45	$9.17	$8.90

285 RMA Flux Core Wire Solder - 1 lb. Spool

This mildly activated rosin core solder is used for sensitive electronics and military applications. *Meets: ANSI/J-STD-006:Flux-ROL1*

TT No.	Core	Tin-Lead Alloy	Dia. Inch	Gauge	PRICE PER LB. 1-19	20-49	50+
488SO9702	66	60/40	.020	25	$16.60	$16.12	$15.63
488SO9718	66	60/40	.025	23	$24.25	$23.51	$22.80
488SO9710	66	60/40	.031	21	$23.55	$22.85	$22.16
488SO971	66	62/36/2	.031	21	$26.55	$25.74	$24.96
488SO744	58	63/37	.010	33	$79.25	$76.90	$74.60
488SO713	58	63/37	.031	21	$23.75	$23.03	$22.34
488SO702	66	63/37	.020	25	$27.80	$27.00	$26.18
488SO718	66	63/37	.025	23	$8.95	$8.68	$8.42
488SO734	70	63/37	.015	25	$106.35	$103.22	$100.10
488SO767	70	63/37	.025	23	$96.15	$93.32	$90.50

44 Rosin Core Wire Solder - 1 lb. Spool

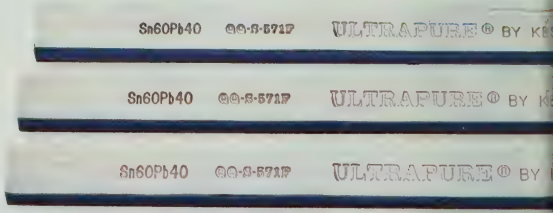
This activated resin core solder has excellent wetting action and is designed for most electrical and electronic applications. *Meets ANSI/J-STD-006:Flux-ROM1*

TT No.	Core	Tin-Lead Alloy	Dia. Inch	Gauge	PRICE PER LB. 1-19	20-49	50+
488SO128	66	40/60	.062	16	$6.70	$6.47	$6.27
488SO140	66	60/40	.015	25	$18.30	$17.74	$17.20
488SO144	66	60/40	.025	23	$10.65	$10.31	$10.00
488SO146	66	60/40	.031	21	$12.20	$11.85	$11.50
488SO148	66	60/40	.040	19	$10.45	$10.15	$9.84
488SO150	66	60/40	.050	18	$8.75	$8.50	$8.26
488SO152	66	60/40	.062	16	$10.35	$10.00	$9.75
488SO157	66	63/37	.015	25	$21.70	$21.05	$20.42
488SO158	66	63/37	.020	25	$13.00	$12.64	$12.26
488SO160	66	63/37	.025	23	$10.70	$8.68	$8.42
488SO162	66	63/37	.031	21	$7.75	$7.52	$7.30
488SO061	66	63/37	.062	16	$9.65	$9.34	$9.06

Kester 1lb. E-Bar Solder

High purity, virgin tin and lead. Exceeds Mil-Spec and ASTM specifications.

TT No.	Type	Tin/Lead	Wt.	PRICE PER LB. 1-25	50-100	125+
488SO282	E	60/40	1 lb.	$4.75	$4.62	$4.48
488SO298	E	63/37	1 lb.	$5.15	$4.80	$4.66



Ultrapure® Bar Solder - 25 lb. Container

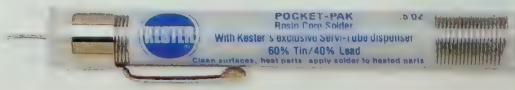
Use in high tech electronics applications where lower surface tension and hole filling ability are essential. Bar weighs 1-2/3 lbs. *Exceeds of QQ-S-571-F, ASTM B32.*
No. 488SO050 SN63
(25 lb.) **$128.80** (75 lb.)(3 boxes) **$118.80** (125 lb.) (5 boxes) **$115.20**

Ultra Low Dross - 25 lb. Container

Formulated with a special low dross additive to dramatically decrease dross formation on the solder pot. Lower dross formation decreases joint weakening inclusions in the solder, keeps surface tension low and decreases costly solder loss through drossing.
No. 488SO030 SN63
(25 lb.) **$130.90** (75 lb.)(3 boxes) **$124.58** (125 lb.)(5 boxes) **$120.80**

Kester Pocket-Pak Solder

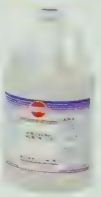
As easy to handle as a pen! Comes with an appropriate pocket clip.
Ideal for service and repair. 60% tin/40% lead alloy. .031 dia. 0.5 oz. (14.1 gram)
No. 488SO244 ..... **$.90**



TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

No-Clean Liquid Fluxes Alcohol Based

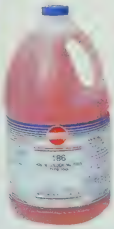
No-Clean Liquid Fluxes - Alcohol Based			
	958	959	951
Flux Type	Low Solids No-Clean	Low Solids No-Clean	Rosin Free Low Solids No-Clean
Percent Solids	2.70	3.90	2.0
VOCs (g/liter)	735	776	792
Specific Gravity	0.806 ± 0.005	0.800 ± 0.005	0.813 ± 0.003
Products Characteristics	For wave soldering, gives excellent performance on bare copper PCBs.	Developed to minimize the formation of micro-solderballs during wave soldering operations.	Very low solids, rosins free, foam and spray application flux. Practically no residue.
Compliant Specifications	Bellcore Issue 1 GR-78-CORE & ANSI/J-STD-004 Flux designator ORLO	Bellcore Issue 1 GR-78-CORE & ANSI/J-STD-004 Flux designator ROLO	Bellcore Issue 1 GR-78-CORE & ANSI/J-STD-004 Flux designator ORLO
Residue Removal Method (not normally required)	Wash with Kester's #5768 Bio-Klen® saponifier at 2% concentration.	Wash with Kester's #5768 Bio-Klen® saponifier at 2% concentration.	Wash with Kester's #5768 Bio-Klen® saponifier at 2% concentration
Thinner #	4662-SM		
Size	1 Gal.	1 Gal.	1 Gal.
TT No.	**488SO958**	**488SO959**	**488SO951**
PRICE	**$60.00**	**$25.26**	**$59.15**



Rosin Based Liquid Fluxes

This is a high quality, purified grade rosin blended into an alcohol solvent system. The desired flux activity and the amount of rosin residue are determined by the concentration (solids percentage) of the flux.

Rosin Based Liquid Fluxes			
	186-18	1544	1589
Flux Type	Rosin Mildly activated (RMA)	Activated Rosin (AR)	Activated Rosin (AR)
Percent Solids	18 to 36%	50%	16%
Percent Halides	0.02%	0.44%	0.044%
Specific Gravity	0.829 ± 0.005 (186)	0.929 ± 0.005	
Product Characteristics	Designed for high thermal stability and superior solderability.	Used on surfaces which are more difficult to solder.	Foaming flux for hi-speed wave soldering applications where minimal residue are desirable but high activity is required.
Compliant Specifications	ANSI/J-STD-004 Flux designator ROLI	ANSI/J-STD-004 Flux designator ROMI	ANSI/J-STD-004 Flux designator ROMI
Residue Removal Method	Residue is non-corrosive, but may be removed with solvent.	Residue is non-corrosive, but may be removed with solvent.	Removed with solvent saponifer at 7-10% solution in de-ionized or doft water at 120-140°F
Thinner #	120	104	108
TT No.	**488SO0186**	**488SO544**	**488SO589**
PRICE	**$64.55**	**$22.35**	**$62.00**



Ultrapure Tip Tinner

Ultrapure Tip Tinner will replenish the original coating while removing excess oxides. Formulated with lead free solder and special fluxing agents, Ultrapure Tip Tinner provides a safer and more environmentally friendly alternative to re-tinning with standard lead bearing compounds. 0.7 oz. (19.8g) **(USA)**
No. 488SO4010 .... **$4.50/ea.**

SP-44 Rosin Paste Flux

A highly active, non-corrosive flux with excellent wetting action designed specifically for electrical/electronic applications. It permits soldering of even difficult metals such as brass of nickel. Non-corrosive and electrically non-conductive. 2 oz. **(USA)**
No. 488SO044..... **$1.35/ea.**

Kester Flux-Pen™

Designed to dispense the right amount of liquid. For rework and soldering touch-up. **(USA)**
Formula 186 - RMA flux. Meets *MIL-F-14256.*
No. 488CH0186 ..... **$2.80**
Formula 951 - A halide-free, "no-clean" flux.
No. 488CH051 ..... **$2.80**

Flux Dispensers

Techni-Tool® Pin Point Flux Dispensers Allows You to Deliver Flux and More to Hard to Reach Areas!

Techni-Tool® Flux Dispenser

Apply just one drop of flux, with no spillage! 1" long needle is maintenance-free, always ready for dispensing. Self-standing, non-spill 2 oz. bottle is 5' high to tip of needle. 20 Ga., .035 O.D. **(USA)**
No. 314SO012 ..... **$2.25**

Great Little Dispenser Bottle

Useful for dispensing a variety of liquids. One of those hard to find, practical tools needed in every location. Its long needle nose makes it handy for all those hard-to-get-places. It is easily refillable & has a leak-proof cap and scabbard. Needle: 1-1/4"; Bottle: 3-3/4" OAL. **(USA)**
No. 696PR010 ..... (1-11) **$2.50**
(12-99) **$2.25** (100+) **$1.99**

Flux Bottle And Applicator

Round 1/2 oz. glass bottle has plastic cap with brush applicator. **(USA)**
No. 758PR024..... **$1.25**

Squeeze Bottles

Bottles come with 18-1/2" needle (other needle sizes available upon request).
1 oz. Flux Bottle
No. 272PR510 ..... **$1.90**
2 oz. Flux Bottle
No. 272PR520..... **$12.60**
4 oz. Flux Bottle
No. 272PR540 ..... **$11.75**

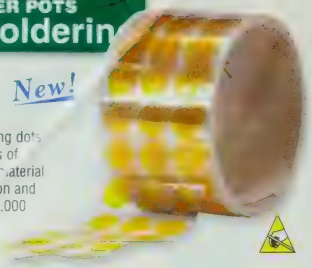
All Plastic 30cc Disposable Bellows Syringe

No drip. Each half flute dispenses 30cc of material. Use as storage containers for premixed, two-part materials. Long tapered tip is flexible and non-conductive for deep component potting. Bellows Syringe fills easily through top of stopper. 10 syringes/Pk. **(USA)**
No. 902PR010 . . . (1-24) **$5.45** (25+) **$4.25**

Concertina Squeeze Bottle

Use empty. Use full. This leak-proof, refillable, 1 oz. squeeze bottle with a metal needle nose tip is great as an air duster, or for oils, solvents or glues. Accordion folds provide smooth application and control. **(USA)**
No. 696PR012
(1-50) **$2.25** (51+) **$2.00**

Soldering/Desolderin



Kapton Film Colored Marking Dots

New!

Bright colorful pressure sensitive marking dots offer immediate recognition to hundreds of applications including: vendor records, material identification, action priorities, production and inventory control. Packaged in rolls of 5,000 and 1,000. **(USA)**

Red -1000/Roll
No. 758PR258 1/4" 1m $2.65
No. 758PR383 3/8" 1m $3.50
No. 758PR500 1/2" 1m $3.65

Yellow -1000/Roll
No. 758PR260 1/4" 1m $2.65
No. 758PR385 3/8" 1m $3.50
No. 758PR502 1/2" 1m $3.65

Blue -1000/Roll
No. 758PR262 1/4" 1m $2.65
No. 758PR387 3/8" 1m $3.50
No. 758PR504 1/2" 1m $3.65

Fluorescent Red -1000/Roll
No. 758PR264 1/4" 1m $2.65
No. 758PR389 3/8" 1m $3.50
No. 758PR506 1/2" 1m $3.65

Fluorescent Pink -1000/Roll
No. 758PR266 1/4" 1m $2.65
No. 758PR391 3/8" 1m $3.50
No. 758PR508 1/2" 1m $3.65

Red -5000/Roll
No. 758PR259 1/4" 5m $13.20
No. 758PR384 3/8" 5m $17.45
No. 758PR501 1/2" 5m $17.00

Yellow -5000/Roll
No. 758PR261 1/4" 5m $13.20
No. 758PR386 3/8" 5m $17.45
No. 758PR503 1/2" 5m $17.00

Blue -5000/Roll
No. 758PR263 1/4" 5m $13.20
No. 758PR388 3/8" 5m $17.45
No. 758PR505 1/2" 5m $17.00

Fluorescent Red -5000/Roll
No. 758PR265 1/4" 5m $13.20
No. 758PR390 3/8" 5m $17.45
No. 758PR507 1/2" 5m $17.00

Fluorescent Pink -5000/Roll
No. 758PR267 1/4" 5m $13.20
No. 758PR392 3/8" 5m $17.45
No. 758PR509 1/4" 5m $17.00

Other Sizes Available-Call!

Inspection Arrows

These colorful identification and inspection arrows point to specific areas for flagging, repair identification, quality control inspection, production assembly drawings and instruction. Products will not fade, dry out, curl, lift or become brittle. Packaged in rolls or envelopes of 1,000 and 5,000. **(USA)**

Standard Yellow - 1000/Pack
No. 758PR125 3/16" x 1/8" $3.25
No. 758PR250 1/4" x 3/16" $4.15
No. 758PR375 3/8" x 1/4" $4.80
No. 758PR750 3/4" x 5/16" $8.10

Standard Blue - 1000/Pack
No. 758PR127 3/16" x 1/8" $3.25
No. 758PR252 1/4" x 3/16" $4.15
No. 758PR377 3/8" x 1/4" $4.80
No. 758PR752 3/4" x 5/16" $8.10

Fluorescent Pink - 1000/Pack
No. 758PR130 3/16" x 1/8" $3.25
No. 758PR255 1/4" x 3/16" $4.15
No. 758PR380 3/8" x 1/4" $4.80
No. 758PR755 3/4" x 5/16" $8.10

Standard Yellow - 5000/Pack
No. 758PR126 3/16" x 1/8" $16.15
No. 758PR251 1/4" x 3/16" $20.75
No. 758PR376 3/8" x 1/4" $23.90
No. 758PR751 3/4" x 5/16" $40.40

Standard Blue - 5000/Pack
No. 758PR128 3/16" x 1/8" $16.15
No. 758PR253 1/4" x 3/16" $20.75
No. 758PR378 3/8" x 1/4" $23.90
No. 758PR753 3/4" x 5/16" $40.40

Fluorescent Pink- 5000/Pack
No. 758PR129 3/16" x 1/8" $16.15
No. 758PR254 1/4" x 3/16" $20.75
No. 758PR379 3/8" x 1/4" $23.90
No. 758PR754 3/4" x 5/16" $40.40

Red Standard - 5000/Pack
No. 758PR131 3/16" x 1/8" $16.15
No. 706MI100 3/16" x 1/8" $20.75
No. 706MI010 3/16" x 1/4" $20.75
No. 758PR256 3/16" x 1/4" $20.75
No. 706MI108 1/4" x 3/8" $23.90
No. 758PR381 3/8" x 1/4" $23.90
No. 758PR756 3/4" x 5/16" $40.40
No. 706MI016 3/4" x 5/16" $40.40

Fluorescent Red - 5000/Pack
No. 758PR132 3/16" x 1/8" $16.15
No. 706MI102 1/8" x 3/16" $18.70
No. 706MI022 3/16" x 1/4" $20.75
No. 758PR257 1/4" x 3/16" $20.75
No. 706MI110 1/4" x 3/8" $23.90
No. 758PR382 3/8" x 1/4" $23.90
No. 758PR757 3/4" x 5/16" $40.40
No. 706MI018 5/16" x 3/4" $40.40

Solder Pots

ESICO Electric Soldering Pots

Supplied with three wire cord only. For tinning, stripping, dip soldering, etc. Available in 110/120V and 220/240V. Dross skimmers not included.

JUST THE FACTS											
	110V Models		220/240V Models		Solder		Dimensions			110V Replace Element *	
	TT No.	PRICE	TT No.	PRICE	Watts	Cap-lbs	Max.Temp(°F)	Inside Diameter	Inside Depth	Element	PRICE
A*	352SO010	$91.00	–	–	200	3/4	750°	1-9/16"	1-1/2"	352SO016	$13.35
	352SO022	$164.00	–	–	250	3/4	650°	1-9/16"	1-1/2"	352SO036	$13.35
B	352SO024	$230.00	352SO025	$220.00	250	1-1/4	1200°	2"	1-1/2"	352SO026	$41.80
C*	352SO032	$93.00	352SO033	$117.95	250	2-1/4	750°	2-1/2"	1-3/4"	352SO036	$13.35
	352SO540	$111.00	352SO541	$106.35	250	2-1/4	900°	2-1/2"	1-3/4"	352SO036	$13.35
	352SO042	$166.00	–	–	250	2-1/4	625°	2-1/2"	1-3/4"	352SO036	$13.35
	352SO600	$204.00	–	–	650	5	650°	2-1/2"	3-1/2"	352SO062	$25.30
D	352SO082	$255.00	–	–	1000	9-1/2	900°	3-1/8"	4-1/4"	352SO086	$47.95
E	352SO094	$214.00	–	–	650	11-3/4	650°	4.75" x 4.75"	1-3/4"	352SO062	$24.20
F	352SO100	$550.00	352SO103	$526.00	1200	33	650°	6" x 12"	1-7/8"	352SO102	$169.00
G	352SO240	$748.00	352SO241	$793.00	250	1-1/4	1100°	2"	1-1/2"	352SO242	$45.00
	352SO330	$765.00	352SO331	$810.00	350	4	850°	3" x 3"	1-1/2"	352SO333	$76.00
	352SO740	$965.00	352SO741	$1020.00	1000	9-1/2	900°	3-1/8"	4-1/4"	352SO742	$66.00

A, C* = Pot size and control increases/decreases based on capacity.*

Accessories

Sand Tray: *(accommodates all pots shown, except* ***No.352SO082 & 352SO100,*** *which come equipped with trays)* 9-1/4" dia. I.D., 1-1/2" Inside Depth
***No. 352SO018 ..... $51.00**

Thermocapes: added to standard Model 36 (352SO032,) adds 150°F to maximum pot temperature without increasing wattage.
No. 352SO013 ..... $17.00

Dross Collector (for No.352SO024)
No. 352SO028 ..... $16.00

Cord set for 12, 36, 37, 70, 75
No. 352SO014 ..... $27.80

220V Replacement Elements Available

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

SP-500T, SP-150T, SP-600T & SP-750T

EXCEEDS ANSI (J-STD-001B) PRECISION TEMPERATURE CONTROLLED ± 5°F (± 2.75°C)

Plato's Solder Pots exceed the requirements of military specifications ANSI (J-STD-001B). The pots control temperatures to ± 5°F (± 2.75°C) of a preselected setting from ambient to 925°F (496°C) and have an LCD temperature display.

Standard features include:

- ✓ A new solid state controller that limits transient voltage spiking to 2mV peak-to-peak, or less, for voltage sensitive components.
- ✓ A temperature preset switch to select the desired temperature.
- ✓ An LCD that displays preset temperature and operating temperature.
- ✓ Internal circuitry to compensate for incoming power fluctuations, power line circuit breaker.
- ✓ All metal construction for ESD protection.
- ✓ An output jack for external temperature recorder or data logger.

SP-600T and SP-750T Additional Features:

- ✓ Large capacity crucible, 4" (102mm) by 6" (152mm) by 4" (102mm) deep.
- ✓ Safety warm-up crucible cover.
- ✓ Capacity: 32 lbs. (14kg).

TT No.	Input	Wattage	Temperature Range	PRICE
657SO500	120VAC	350	Ambient to 925°F (496°C)	$899.90
657SO150*	240VAC	350	Ambient to 925°F (496°C)	$899.90
657SO600	120VAC	1000	Ambient to 750°F (399°C)	$1859.00
657SO750*	240VAC	1000	Ambient to 750°F (399°C)	$1859.00

* 657SO150 and 657SO750 Display Temperature in Celsius.

SP-500T & SP-150T

SP-101, SP-201, SP-301, SP-401 General Purpose

GENERAL PURPOSE ± 11°F (± 6°C)

Plato General Purpose Solder Pots control temperature to ± 11°F (± 6°C) through the use of a thermal timer switch with automatic correction for voltage fluctuations. Proven features include:

- ✓ A three index position control switch with infinitely variable temperature control.
- ✓ All parts are easily replaceable including the heating element and control switch.
- ✓ Capacity: 2 lbs.

Replacement parts list and prices on request.

TT No.	Input	Wattage	Temperature Range	PRICE
657SO101	120VAC	350	500° to 975°F (525°C)	$261.70
657SO201	240VAC	350	500° to 975°F (525°C)	$261.70
657SO301	120VAC	500	500° to 1100°F (595°C)	$270.50
657SO401	240VAC	500	500° to 1100°F (595°C)	$270.50

PLATO SofTweezer™ Foam Cushion Grips Offer Comfort & Control

Improves operator control. Ergonomically designed
Reduces fatigue. Lightweight - Well balanced.
Cleanroom safe - ESD safe. Stainless Steel.
anti-magnetic, acid resistant. (Switzerland)

- 00 No. 657TW511 ..... $21.10
- 1 No. 657TW500 ..... $21.10
- 3C No. 657TW502 ..... $21.10
- 7 No. 657TW508 ..... $22.75

Style 00

Style 3C

Style 1

Style 7

Plato®-Stat Permanently Static Dissipative Products

	TT No.	Description	Use	
A.	657ST010	Flux dispenser, 2oz. (59ml), .010" (.25mm)ID capillary, 1" (25mm)L.	Dispense water base fluxes, low viscosity liquids.	$8.85
B.	657ST020	Flux dispenser, 2oz. (59ml), .020" (.5mm)ID capillary, 1" (25mm)L.	Dispense rosin fluxes, lubricants, cleaners, adhesives.	$8.85
C.	657ST250	Bottle and nozzle, 8oz. (237ml).	Dispense liquids.	$14.50
D.	657PR210	Scrub brush for spot cleaning, 2oz. (59ml), Brush is soft, natural horse hair and general cleaning.	Soft to medium stiffness.durable and works well for flux removal.	$18.45

Plato Shear Lead Cutters

170, 170-SD, 170-SMD Shears

Platoshear 170:
Flush cuts component leads as large as 18 AWG copper wire (.040"/1.0mm). Weighs 1.8oz. (51g) and is 5.15" (131mm) long.
No. 657PL170 ..... **$4.95**

Platoshears 170SD – ESD Safe:
Same as Platoshear 170, but with permanently static dissipative plastic grips which meet DOD-STD-1686 and MIL-B-81705. Type 2.
No. 657PL171 ..... **$9.70**

Platoshear 170 SMD – ESD Safe:
Designed for use in restricted areas. The low profile cutting head width of .290' (7.38mm) and an end radius of .010 (.25mm) is designed to cut between SMD leads as close as .040" (1mm) center to center and up to .025" (0.6mm) in diameter Includes unique SAF-T-LINK feature for greater operator safety.
No. 657PL172 ..... **$9.80**

170

170-SD

170-SMD

Additional sizes and styles are available. Call for prices.

PLATO

Plato® Tips to fit Hakko® Desoldering Irons 474, 475, 701 with Handpiece 808 and 809

	TT No.	Hakko® P/N	Plato® P/N	D_1	D_2	Price
D1 D2	657TI1878	A-1002	HK-0878	.30" (0.8)	.070" (1.8)	$16.80
	657TI1879	A-1003	HK-0879	.40" (1.0)	.080" (2.0)	$16.80
	657TI088	A-1004	HK-0880	.030" (0.8)	.090" (2.3)	$16.80
	657TI881	A-1005	HK-0881	.040 (1.0)	.100 (2.5)	$16.80
	657TI882	A-1006	HK-0882	.050" (1.3)	.120" (3.0)	$16.80
	657TI083	A-1007	HK-0883	.060 (1.5)	.120 (3.0)	$16.80

Plato® Tips to fit Hakko® 483, 700, 707, 800 & 800L, OK Ind.® SA-150/250/350/450, DG-20/40/60 Desoldering Irons

	TT No.	Hakko® P/N	Plato® P/N	D_1	D_2	Price
D1 D2	657TI108	483-T-0.8	HK-0008	.30" (0.8)	.090" (2.3)	$21.45
	657TI010	483-T-1.0	HK-0010	.40" (1.0)	.090" (2.3)	$21.45
	657TI013	483-T-1.3	HK-0013	.050" (1.3)	.100" (2.5)	$21.45
	657TI016	483-T-1.6	HK-0016	.060" (1.5)	.120" (3.0)	$21.45
	657TI100	483-T-1.0S	HKL-0010	.040" (1.0)	.090" (2.3)	$21.45

3/16" (4.8mm) Plato® Tips to fit Pace® SX-65A & SX-70 SODR-X-TRACTORS

	TT No.	Pace® Economy Grade	Plato® Economy Grade	D_1	D_2	Price
D1 D2	657TI003	1121-0505	30-0003	.030" (0.8)	.075" (2.9)	$5.50
	657TI004	1121-0494	30-0004	.040" (1.0)	.085" (2.2)	$5.50
	657TI009	1121-0506	30-0006	.060" (1.5)	.105" (2.7)	$5.50
	657TI300	1121-0367	30-0300	.030" (0.8)	.065" (1.7)	$5.50
	657TI400	1121-0342	30-0400	.040 (1.0)	.085 (2.2)	$5.50
	657TI600	1121-0368	30-0600	.060 (1.5)	.115" (2.9)	$5.50
	657TI900	1121-0507	30-0900	.090 (2.3)	.190 (4.8)	$5.50
	657TI060	1121-0369	30-0060	.060 (1.5)	.188 (4.8)	$5.50

Plato® Tips to fit Hakko® 926, 927, 928, 933, 936, 937 Soldering Stations with Handpiece M926, 900M or 907 ESD, and O.K. Industries SA1000 Station with SAI-640 Handpiece

Tip	TT No.	Hakko P/N	Description	Tip Size Inch (mm)	Price
HS-5701	657TI701	900M-T-1C	Bevel	3/64" (1.2)	$5.95
HS-5702	657TI702	900M-T-2C	Bevel	5/64" (2.0)	$5.95
HS-2751	657TI751	900M-T-1.6D	Chisel	1/16" (1.6)	$5.95
HS-2752	657TI752	900M-T-2.4D	Screwdriver	3/32" (2.4)	$5.95
HS-2753	657TI753	900M-T-3.2D	Screwdriver	1/8 (3.2)	$5.95
HS-4785	657TI785	900M-T-B	Conical	.040" (1.0)	$5.95
HS-4787	657TI787	900M-T-I	Conical	1/64 (0.4)	$5.95
HS-0927	657TI927	900M-T-K	SMD Blade	1/4" (6.3)	$7.85
HS-0923	657TI923	900M-T-R	SMD	.125 (3.2)	$7.50
HS-0530	657TI530	None	SMD Flow Tip	.128 (3.3)	$6.95
HS-0531	657TI531	None	SMD Flow Tip	.195" (5.0)	$7.45
HK-0879 HK-0881 HK-0882 (0.755" (19.0))	657TI879	A-1003	Desoldering Tip	I.D. .040 O.D. .080	$16.80
	657TI881	A-1005	Desoldering Tip	I.D. .040 O.D. .100	$16.80
	657TI882	A-1006	Desoldering Tip	I.D. .050 O.D. .120	$16.80

Plato® Tips to fit Hexacon® Therm-O-Trac 1001, 1002, 1002A & Select-O-Trac 1003A/B, 1006A/B Soldering Irons

Tip	TT No.	Hexacon P/N	Description	Tip Size Inch (mm)	Price
CH-3487	657TI487	J201X	Chisel	1/16" (1.6)	$8.20
CH-3489	657TI489	J301X	Screwdriver	1/16" (1.6)	$8.20
CH-4299	657TI299	J917X	Conical	1/32" (0.8)	$8.20
CH-4314	657TI314	J954X	Conical	.020" (0.5)	$8.60

Plato® Tips to fit Edsyn Loner® CL1080, CL1180, 900 902, 920, 925, 930, 935, 951, 952, 952DX, HX, SX, 981, LSTII Soldering Irons

Tip	TT No.	Edsyn Loner P/N	Description	Tip Size Inch (mm)	Price
E-4709	657TI709	LT-374	Conical	1/32 (0.8)	$8.15
E-2621	657TI621	LT-375	Screwdriver	1/16" (1.6)	$8.15
E-2622	657TI622	LT-376	Screwdriver	1/8" (3.2)	$8.15
E-4781	657TI781	LT-383	Conical	1/64" (0.4)	$8.15

3/16" (4.8mm) Plato® Tips to fit Pace® SP-1A, SP-2A, PS-80, ST-45, IR-70 SODR-PEN® Soldering Irons

Tip	TT No.	Pace P/N	Description	Tip Size Inch (mm)	Price
33-8142	657TI142	1121-0336	Conical	1/32" (0.8)	$5.20
33-8141	657TI141	1121-0357	Conical	1/64" (0.4)	$5.20
33-5894	657TI5894	1121-0406	Bevel	1/8" (3.2)	$5.20
33-6056	657TI056	1121-0414	Screwdriver	1/16" (1.6)	$5.20
33-1147	657TI147	1121-0499	Screwdriver	1/16" (1.6)	$5.20
33-5895	657TI895	1121-0490	SMD Flow Tip	.195" (5.0)	$5.80

Thermo-Drive® Tips to fit Pace® SP-1A, SP-2A, PS-80, ST-45 & IR-70 Soldering Irons

33-3981	657TI981	1121-0516	Conical	.015" (0.4)	$5.45
33-3982	657TI982	1121-0526	Bent Conical	.015" (0.4)	$5.45

Extended Reach Tips to fit Pace® SP-1A, SP-2A, PS-80, ST-45 & IR-70 Soldering Irons

33-7105	657TI7105	1121-0530	Chisel	1/8" (3.2)	$5.20
33-7103	657TI7103	1121-0533	Screwdriver	.062" (1.6)	$5.20

Plato® Tips to fit Pace®, Air-Vac®, and A.P.E.® Desoldering Irons

	TT No.	Pace P/N	I.D.	O.D.	Length	Price
Plato® Tips to fit Pace® SX-20, SX-25, SX-25V SODR-X-TRACTORS® 10/PK						
20-0109	657TI109	1121-0213	.025	.060	1"	$22.90
	657TI110	1121-0479	.040	.080	1"	$22.90
Plato® Tips to fit Pace® SX-40A, SX-55A, SX-65A, SX-70 SODR-X-TRACTORS® with Plato Adapter 33-0001						
20-050	657TI050	None	.050	.090	1.75"	$20.25

3/16" (4.8mm) Plato® Tips to fit Hexacon®, American Beauty®, and Esico® Soldering Irons

Tip	TT No.	Hexacon P/N	Description	Tip Size Inch (mm)	Price
33-364	657TI364	HT-207	Screwdriver	3/32" (2.4)	$8.30
31-517	657TI517	HT-220	Bevel	1/16" (1.6)	$8.30
33-415	657TI415	HT-281	Conical	1/32" (0.8)	$8.30

1/4" (6.4mm) Plato® Tips to fit Hexacon®, American Beauty®, and Esico® Soldering Irons

Tip	TT No.	Hexacon P/N	Description	Tip Size Inch (mm)	Price
44-390	657TI390	HT-417	Screwdriver	1/8" (3.2)	$8.45
42-117	657TI117	HT-451	Chisel	1/8" (3.2)	$8.45
42-355	657TI355	HT-359	Screwdriver	1/16" (1.6)	$8.45
44-152	657TI152	HT-553	Chisel	1/4" (6.3)	$8.45

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

BRANSON

Branson Ultrasonic Cleaning

Bransonic cleaners have been designed to be functional, reliable and easy to use. All controls are mounted in an easily-accessible control panel above and behind the cleaning tank. They're easily seen and are above any liquid for safety and reliability. Powerful enough to remove heavy oils, buffing compounds or proteins, consistent enough to manage difficult laboratory cleaning and safe enough for those delicate electronic components or fine jewelry. Digital models offer you maximum control of cycle time up to 99 minutes and bath temperatures to 70°C. You can count on batch-to-batch consistency because the unit automatically resets to the last setting. Just reload the tank and restart! Timers are adjustable up to 60 minutes and incorporate a hold feature for continuous cleaning. All feature a two-year guarantee and meet FCC, CSA and CE standards.

ALL UNITS FEATURE AN INDUSTRIAL TRANSDUCER!

JUST THE FACTS

Model	8510	5510	3510	2510	1510	DHA-1000	BC1218	BC1620
Tank Size (LxWxD)	19-1/2"x11-1/2"x6"	11-1/2"x9-1/2"x6"	11-1/2"x6"x6"	9-1/2"x5-1/2"x4"	6"x5-1/2"x4"	14"x16"x10-1/2"	18"x12"x14"	20"x16"x18"
Overall Size (LxWxD)	24"x18"x14-1/2"	16"x15-1/2"x14-1/2"	16"x12"x14-1/2"	13-1/2"x12"x11-1/2"	10"x12"x11-1/2"	17"x19"x19"	20"x19"x23"	22"x24"x25"
Tank Capacity	5.5 gal.	2.5 gal.	1.5 gal.	0.75 gal.	0.50 gal.	10 gal.	12 gal.	22 gal.
Weight	26 lbs.	14 lbs.	12 lbs.	9 lbs.	7 lbs.	70 lbs.	120 lbs.	154 lbs.
Frequency	40 kHz.	40 kHz.	40 kHz.	40 kHz.	40 kHz.	40 kHz.	40 kHz	40 kHz
Drain	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Digital Control Plus Heater & Timer, 120V	**208UL818 $1829.00**	**208UL518 $1046.50**	**208UL318 $817.50**	**208UL218 $528.50**	**208UL118 $401.00**	**Regular Switch Control, No timer**	**208PR914 $3995.00**	**208PR003 $4995.00**
Mechanical Timer Plus Heater, 120V	**208UL817 $1670.00**	**208UL517 $968.00**	**208UL317 $733.00**	**208UL217 $474.50**	**208UL117 $335.00**	**208CH506 $3425.00**	–	–
Mechanical Timer	**208UL816 $1458.00**	**208UL516 $907.00**	**208UL316 $644.50**	**208UL216 $425.75**	**208UL116 $301.50**	–		–
OPTIONAL ACCESSORIES • OPTIONAL ACCESSORIES • OPTIONAL ACCESSORIES • OPTIONAL ACCESSORIES								
Tank Cover	Included	Included	Included	Included	Included	**208AC802 $85.00**	Included	Included
Perforated Tray Stainless Steel	**208UL823 $151.75**	**208UL523 $84.50**	**208UL064 $64.50**	**208UL162 $55.00**	**208UL160 $38.75**	**208AC016 $265.00**	–	–
Basket Stainless Steel	–	–	**208UL323 $63.00**	**208UL223 $54.00**	**208UL123 $37.75**	–	Included	Included

Branson Concentrated Ultrasonic Cleaning Formulas

Cleaner Type	Removes	Size	TT No.	PRICE
OC Optical Cleaner	Removes general soils, fingerprints, cerium oxide, pitch and blocking waxes from optical lenses and polishing compounds from glass.	1 gal.	208CH724	$22.50
JC Jewelry Cleaner	Removes general soils, particulates, fingerprints, oils and oxides.	1 gal.	208CH216	$26.75
EC Electronics Cleaner	Removes oils, resins, rosins and other soils from hard surfaces encountered in the electronic, plating and other related industries.	1 gal.	208CH914	$19.75
IS Industrial Strength	Removes grease, oils and particulates from automotive, aircraft and similar mechanical components; cleans shop oils and light carbon deposits.	1 gal.	208CH116	$27.25
OR Oxide Remover	Removes rust and oxides from all metals.	1 gal.	208CH516	$28.50
GP General Purpose	Removes general soils, fingerprints, dust, light oils and greases.	1 qt. 1 gal.	208CH014 208CH955	$7.50 $23.25
MC-1 Metal Cleaner	Removes oils, greases and a variety of soils from aluminum and aluminum alloys, copper, brass and steel substrates.	1 gal.	208CH824	$19.75
MC-2 Metal Cleaner	Removes oils, greases and a variety of soils from ferrous metals, steel alloys, titanium alloys, copper and copper alloys and stainless steel (not recommended for aluminum).	1 gal.	208CH834	$18.25
MC-3 Metal Cleaner	Removes oils, greases and a variety of soils from ferrous metals, aluminum copper and stainless steel and also aluminum, steel, titanium and copper alloys.	1 gal.	208CH844	$19.00

Additional Concentrated Ultrasonic Cleaning Formulas

Cleaner Type	Removes	Size	TT No.	PRICE
Alconox Detergent	Biodegradable, odorless, mild (pH9.0 - 9.6). Leaves no residue after proper rinsing. Special formulation inhibits corrosive action on most metals.	4 lb.	500CH012	$16.80
Alconox Detergent 8®	Low-foaming, phosphate-free detergent can be used to clean circuit boards, electronic parts, delicate industrial parts and nuclear-contaminated equipment during outage.	1 gal.	117CH701	$36.40
Alcojet® Low-Foaming Powdered Detergent	Removes soil, grit, grime, slime, grease, tars, resins, fats, oils, inorganic residue, particulates, solvents, chemicals and solvents from glass, metal, stainless steel and more.	4 lb.	117CH030	$16.80
Luminox™	Biodegradable, phosphate-free, low-foaming neutral cleaner for non-corrosive cleaning. No chelation or alkalinity waste. Cleans aluminum and soft metal surfaces.	1 gal.	117CH901	$28.60
Citranox™	Contains acid ingredients for high-performance removal of metal oxides, salts and inorganic residues combined with full detergent capability. Used on soft metals.	1 gal.	500CH3373	$26.70

Dusters

Envi-Ro-Tech™ Duster Spray & Brush Aerosol System

Envi-Ro-Tech™ duster is your economical choice to remove dirt, dust and other dry contaminants from your sensitive components and surfaces. The Duster is a non-ozone depleting, non-flammable dusting gas. Choose the refill can if you currently use chrome trigger valve. Choose the disposable can and nozzle (A), or choose the trigger valve (B) to recycle. **(USA)**

Duster, 10 oz. refill can
No. 754CH167 10 oz. Aerosol **$9.65**
Disposable Can & Disposable Nozzle
A. No. 754OZ671 10 oz. Aerosol **$6.15**
Chrome Trigger Valve 22 Accessory - For HFC propellant only. **(USA)**
B. No. 754AC928 ..... **$26.10**
Disposable Duster, 15 oz Aerosol Can
No. 754CH671 (Not Shown)..... **$8.60**

Vortex™ Duster

A high velocity duster with pure, moisture free, inert gas which quickly dislodges dust from hard-to-reach areas. 100% HFC-134a, Vortex Duster is non-flammable, safe on plastics, and non-ozone depleting. Vortex™ 360° Duster may be used in any position without expelling liquid. **(USA)**

No. 754CH697 Vortex™ Duster 10 oz. **$10.15**
No. 754CH169 Vortex™ 360° Duster 8 oz. **$8.60**

Envi-Ro-Tech™ Freezer™ 1672

A rapidly evaporating liquid that chills to -62°F. Used as a troubleshooting aid for intermittent faulting capacitors, resistors, semi-conductors, etc. Prevents cold solder joints; Protects heat-sensitive components during soldering.
Features: 100% HFC-134a, Non-Flammable, Non-conductive. Leaves No Residue.
10 oz. Aerosol.
No. 754OZ672 ..... **$6.65**

Cleaners/Degreasers

These general-purpose electronics and electrical cleaning products are engineered to clean a wide variety of oils, grease, dirt and handling soils from electronic equipment to assemblies.

Envi-Ro-Tech™ Universal Cleaner

Fast acting and highly effective cleaner containing HCFCs. Safe for cleaning most electronic equipment. Used to remove oils, greases, dirt, silicone, fluxes and similar soils.
12 oz. Aerosol. **(USA)**
No. 754AE167 ..... **$12.80**

HFE Cleaner/Degreaser

This is a non-ozone depleting, non-flammable, rapidly evaporating solvent with excellent plastic compatibility. A precision solvent designed to remove dirt, oil, grease and other stubborn contaminants. 12 oz. Aerosol. **(USA)**
No. 754CH851 ..... **$25.15**

General Cleaner

This general cleaner is a blend of isopropanol and ethanol designed for cleaning electronic and electrical equipment and metal parts. Safe on plastics. 10 oz. Aerosol. **(USA)**
No. 754CH620 ..... **$9.20**

Contact Cleaners

HFE Contact Cleaner

This non-flammable, safe on plastics, non-ozone depleting solvent designed to clean electrical contacts and switches. HFE Contact Cleaner can be used for either hand or batch cleaning and removes oils, greases, silicones, dirt and grime from contacts and pads. 12 oz. Aerosol.
No. 754CH871..... **$25.10**

Contact Cleaner II

Blended HCFC-225 for precision cleaning and degreasing of contacts. Non-flammable and safe on plastic and metal used in relay switches. Designed for batch cleaning or hand operations. Removes oil, greases, and silicones. Zero residue. 18 oz. Aerosol. **(USA)**
No. 754CH690 ..... **$24.60**

Envi-Ro-Tech™ 1675

Heavy-duty cleaner/degreaser used to dissolve oil, wax, tar, adhesive and rosin. No CFC, or 1,1,1-Trichlozuelane. Non-flammable; Non-corrosive and no-residue. Not recommended for acrylic or polycarbonate materials. Aerosol sprays
No. 754AE512 12 oz. **$10.80**
No. 754CH522 22 oz. **$14.10**

Isopropyl Alcohol 99%

99% pure, anhydrous isopropanol for all-purpose cleaning and removal of fluxes, light oils and soils. Use as a flux thinner for most fluxes. **(USA)**
No. 754CH610 1 Pint.....**$7.85**

Envi-Ro-Tech™ Contact Cleaner

Heavy-duty, fast acting and highly effective cleaner containing HCFCs. Safe for cleaning most electronic equipment. **(USA)**
No. 754CH422 22 oz. Aerosol **$15.45**

EcoLine Contact Cleaner

This contact cleaner is a hexane mixture that cleans electrical contacts and connections. Ideal for switches, relays, contact pads and other electrical connections. Safe on plastics, and will not damage switch housing. 10 oz. Aerosol. **(USA)**
No. 754CH622 ..... **$8.80**

Miscellaneous

Pick The Cleaning Agent To Fit Your Needs!

Label And Adhesive Remover

This hydrocarbon cleaner safely removes labels and adhesive gums from equipment and products. Removes gummy residues, labels, stickers, ink marks, beverage spills, and other contaminants. Mild cleaner: Natural solvent; Pleasant odor: Penetrates rapidly; High flash point (111°F/43°C). Low toxicity. **(USA)**
6 oz. Aerosol
No. 754OZ613 ..... **$8.10**

Glass Cleaner

Remove hand oils, ink marks, dust, fingerprints, nicotine, syrup, carbon, and other soils from your work area with TechSpray Glass Cleaner. Has excellent cleaning action that reduces dust, removes contaminants and has optical clarity. This non-abrasive, non-streaking glass cleaner is safe on sensitive surfaces and is fast drying. Can be used on keyboards, office equipment, glass, monitors, photocopying and fax machines, calculators, ceramics, veneers, bar code readers. 18 oz. Aerosol.
No. 754CH518..... **$3.15**

Blue Shower II

Cleaning and degreasing cleaner is the standard for precision cleaning of polar and non-polar soils including hand oils, solder oils, silicone, fluxes and more. For use in vapor degreasers, batch cleaners, hand and benchtop applications. **(USA)**
No. 754CH678 8 oz. Aerosol .. **$12.20**
No. 754CH667 18 oz. Aerosol .. **$23.10**

Rid-Ox™

Rid-Ox removes oxidation and improves conductivity, while sealing and protecting connectors and contacts. 6 oz. Aerosol.
No. 754CH126 ..... **$9.35**

Flux Removers

Flux removers are formulated to remove Type R, RA and RMA rosin and no-clean and synthetic Type SA flux.

Envi-Ro-Tech™ 1676 Flux Remover

General-duty, azeotropic defluxer for R, RA, RMA and SA type fluxes. Use cleaner to remove light oils, silicones, waxes, and greases from printed circuit boards. Non-flammable. Blended HCFC. (Not for acrylic, polystyrene or polycarbonate materials). Zero residue. (No Brush)

No. 754AE612
12 oz. Aerosol..... **$10.00**

No. 754CH676
1 Gal. In Glass **$83.20**

1676 HFE Flux Remover Brush System. 6 oz.
No. 754CH766 ..... **$8.15**

EcoLine Flux Remover

A combination of hydrocarbon solvents and alcohols make it an excellent defluxer. Features: Safe on plastics; Rapid evaporation; dissolves type R, RMA, RA, SA and most no-clean fluxes. Non-corrosive. **(USA)**
10 oz. Aerosol
No. 754CH621 ..... **$9.40**

Aqueous Flux Remover 1661

A unique, economical combination of hydrocarbon solvents and alcohol's making it an excellent specialty defluxer. It rapidly evaporating, residue free and safe for use on most plastics. Formulated for the removal of all types of aqueous fluxes from printed circuit board, gold fingers and connectors. **(USA)**
No. 754SO661 ..... **$6.70**

HFE Flux Remover

This non-flammable, safe on plastics, non-ozone depleting solvent designed for high-end flux removal. Excellent cleaner for hand and batch bench-top cleaning applications. Solvent readily removes type R, RMA, RA and synthetic fluxes from printed circuit assemblies. Rapidly evaporating, HFE Flux Remover is an efficient, one step flux remover. **(USA)**
No. 754CH861 12 oz. Aerosol **$26.10**
No. 754CH686 ..... **$13.95**

Flux Remover AMS

This combination of AK225 and Methanol is specifically designed for defluxing in vapor degreasing and cold batch cleaning. Removes R, RMA, RA and SA fluxes. Safe on plastic and metal. **(USA)**
No. 754CH658 8 oz. Aerosol **$13.15**
No. 754CH651 18 oz. Aerosol **$24.35**
No. 754CH657..... **$12.10**

No-Clean Flux Remover

Used to remove white residue! This non-flammable, rapidly evaporating, blended AK225 designed specifically for the removal of no-clean flux and white water residue. No-clean flux remover also effectively and aggressively removes greases, oils and similar soils from contact, PCBs, connectors, motors, generators, and relays. 6 oz. Aerosol. **(USA)**
No. 754CH660 ..... **$11.35**

Pre-Saturated Wipes

Designed for controlled environments, sensitive cleaning (i.e. optical surfaces) and for high absorbancy applications.

A B C D E F G

SMT Stencil Wipes

This hydrocarbon-based, non-ozone-depleting stencil cleaner effectively removes solder paste from screens and misprinted boards. Its special blend works on most wet or dried thick film and solder paste compositions. Excellent cleaner; non-corrosive; completely evaporates; high flash point (119°F/48°C). 48 wipes in convenient pop-up dispenser. **(USA)**

A. No. 754CH693 ..... **$20.45**

1 Pint with Trigger
B. No. 754CH1693 ..... **$13.65**

SMT Stencil Wipes
100 Wipes and Dispenser
E. No. 754CH081 ..... **$15.60**
100 Refills
No. 754CH101 ..... **$13.85**

Isopropyl Alcohol Wipes

Anti-static, resealable dispensers contain 48 pre-saturated wipes. Wipes are hydroentangled cellulose/polyester with high absorbancy properties and extra-low particulate and chemical extractables. IPA is 99% pure. The product is excellent for tape head cleaning and removal of fluxes, light oils, polar soils and white mineral residue. 48 wipes in convenient pop-up dispenser. **(USA)**

C. No. 754CH1610 ..... **$11.75**

Stencil Wipes
No. 754CH608 (Not Shown)..... **$10.45**

Isopropyl Alcohol
100 Wipes and Dispenser
F. No. 754CH100 ..... **$17.15**
100 Refills
No. 754CH102 ..... **$15.10**

Rubber Rejuvenator /Platen Wipes

This specialized hydrocarbon cleaner cleans and revitalizes rubber rollers and platens. Use on rollers in office paper handling equipment. Improves machine output performance. **Features:** natural solvent; pleasant odor; penetrates rapidly; high flash point (111°F/43°C); low toxicity. 48 wipes in convenient pop-up dispenser. **(USA)**

Dispenser
D. No. 754OZ612 ..... **$13.20**

2 oz. Bottle
No. 754CH122 (Not Shown)..... **$5.50**

SMT Stencil Cleaner
100 Wipes and Dispenser
G. No. 754CH963 ..... **$20.45**
100 Refills
No. 754CH964 ..... **$18.40**

TechClean® SMT Bluewipe

Specifically designed for general maintenance, this blue hydroentangled cellulose/polyester wipe has high absorbency with extra low particulate and chemical extractables. Can be used in cleanroom maintenance, solvent and aqueous absorbent, dislodgment of heavy soils, and static free environments. 300 9 x 9" flat wipes. **(USA)**
No. 754PR359 ..... **$24.30**

Isopropyl Alcohol

99% pure, Anhydrous Isopropanol Alcohol for all purpose cleaning. Excellent for tape head cleaning, removal of fluxes, light oils, polar soils, and white mineral residue. **(USA)** ***50/Pk.***
No.754CH050 ..... **$15.95**

One, Five and 55 Gallon Liquids Available In Many Items.
Ask Your Contact Person For Details!

Chemtronics

Flux Removers

Flux removers are formulated to remove Type R, RA and RMA rosin and no-clean and synthetic Type SA flux.

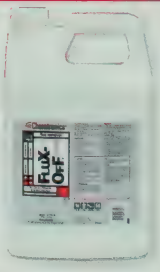
Flux-Off®

Strong cleaning and washing action. Specially formulated to dry fast, leaves no residue. Excellent material compatibility with printed circuit board fabrication.

Water Soluble - 13.5 oz.
No. 237OZ1530
(1-11) **$9.70** (12+) **$8.50**
Heavy Duty - 12 oz.
No. 237CH1631
(1-11) **$9.70** (12+) **$8.50**
No-Clean - 1 Gallon
No. 237OZ192
(1-11) **$88.95** (12+) **$79.97**

Flux-Off® Aqueous

The aqueous flux remover for use in ultrasonics and in-line cleaners. Cleans water-soluble and no-clean flux, and type R, RMA, RA flux. Contains no silicates, abrasives, or caustics. No spotting. Ozone-safe, CFC/HCFC free. Non-flammable, safe on plastics. One gallon liquid.
No. 237CH132..... $24.15



Flux-Off® Rosin

Removes R, RMA, RA, SA & no clean fluxes, oil, ionic and non-ionic soils. This fast-drying aerosol quickly and completely flushes areas under components clean. CFC and HCFC free. Do not use on energized equipment.
No. 237OZ035 10 oz.. **$11.20**
No. 237OZ135 1 gal .. **$41.00**

Flux-Off® CZ Flux Remover

The first non-ozone depleting, nonflammable flux remover made with Cirozane™ is safe for use on plastics. Use on PC boards, SMD Pads, sensitive circuit components, component leads, chip carriers, plugs, sockets and heat sinks, thru-hole and SMT devices. Because it's nonflammable, it's safe to use on energized equipment. Cleans type R, RMA, RA and most no-clean, synthetic and water soluble fluxes. Low surface tension flushes–tight tolerance areas clean. Evaporates quickly–leaves no residue. 12 oz. Aerosol.
No. 237CH7200..... $26.90

Flux-Off® BrushClean™ System

Ideal when you need to spot clean flux and other foreign matter after board repair and production. Use the brush to gently loosen and remove R, RMA, RA, Synthetic and No Clean Fluxes.

Flux-Off® Rosin 5 oz. Aerosol.
No. 237CH835 ..... $6.65
Electro-Wash® PX Brush Clean™ 5 oz. Aerosol.
No. 237CH881 ..... $13.75
Flux-Off® Heavy-duty Brush Clean™ 5 oz. Aerosol.
No. 237CH831 ..... $13.10
Flux-Off® No Clean Brush Clean™ 7 oz. Aerosol.
No. 237CH892 ..... $6.75

Miscellaneous Cleaners

Pick The Cleaning Agent To Fit Your Needs!

Head Cleaner™ II

Safely cleans optical and magnetic tape/disk heads, memory systems and transport mechanisms. Evaporates quickly and leaves no residue. Safe on most plastics and elastomers. CFC and HCFC free. Do not use on energized equipment.
8 oz. liquid.
No. 237OZ820 ..... $7.00

FoamClean™ Label Adhesive Remover

Effectively removes adhesive residue left by tape, stickers and labels from plastic, metal, glass and ceramic surfaces. CFC and HCFC free. 6 oz. Aerosol.
No. 237AE805 ..... $8.00

StencilWorks™ IPA Stencil & Screen Cleaner

The general purpose cleaner for penetrating and cleaning solder paste from SMT stencils & screens. Ideal for use with StencilWorks IPA Presaturated Wipes. The cleaner is upper-ozone safe and CFC/HCFC free.
No. 237CH016 ..... $6.80

Presaturated Wipes

Presaturated wipes combine highly-effective cleaners and static-dissipative treatments with the convenience of a disposable applicator.

Optic Prep®

The highest quality premoistened lens-grade tissue for cleaning optical surfaces. Evaporates completely, leaves no residue. Compatible with most plastics, glass and metals. Mild nonabrasive solvent which quickly removes dust, oils, & contaminants. 4" x 3" wipers. 50 pads.
No. 237CH410 ..... $15.50

Screen Prep®

A convenient way to use cleaning and static control system for use on monitor screens. Controls static-generated contamination. Safely removes dust, dirt and oils. 3" x 4". 25 twin packs.
No. 237CH020..... $18.30

Chempad™

Lint-free and non-abrasive. Evaporates completely. Residue-free, and is compatible with most plastics and rubber. 50 pads/box.
No. 237CH400..... $17.00

Gold Guard™ Pad

Presaturated 4" x 3" pads clean and lubricate gold fingers, M/F connectors and all precious metal contacts. The pads safely remove oxides, dust and other contaminants without abrasion damage. The lubricant remains stable up to 200°F and causes no electrical resistance. 50 pads.
No. 237CH420..... $29.80

Chemswab™

Nonabrasive, urethane foam swabs presaturated with isopropyl alcohol and can be used to safely clean computer keyboards, magnetic tape devices and electronic components. Evaporates quickly with no residue or contamination.
No. 237CH025 25 swabs **$21.40**

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Dusters

Ozone safe, CFC, HCFC Free! Use dusters to remove dust, dirt and other dry contaminants from all kinds of surfaces. These dusters are safe on plastics, non-flammable and leave no residue.

Ultrajet®
This high-pressure duster removes dirt, dust, and dry contaminants without scratching delicate surfaces. Ozone safe, nonflammable, CFC and HCFC free, and may be used on energized equipment. **(USA)**
A. No. 237OZ020 10 oz. Aerosol **$10.15**

UltraJet® Duster
Economical, regular strength. Ozone safe, CFC/HCFC free. Made of HFC-134a. Only 8 oz.
No. 237CH217 8 oz. **$5.55**
No. 237CH1617 12 oz. **$8.30**

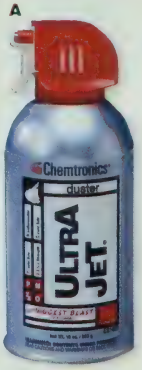
UltraJet® Duster System
Includes chrome trigger valve, 36" extension hose and refill can.
No. 237OZ1020 ..... **$26.40**
No. 237AE1275 10 oz. refill can **$9.65**

UltraJet 70 (70 PSI)
Economical duster. 100% ultra-pure HFC-134a. Leaves no residue.
No. 237AE1015 10 oz. Aerosol **$7.40**

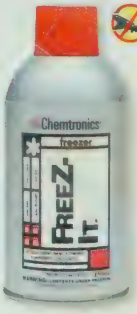
Chrome Trigger Valve
Rigid, 4" stainless steel trigger valve for: Ultrajet® 2000, CFC Free 70PSI®, & E-Series Ultrajet®. One trigger valve.
No. 237PR710 ..... **$20.70**

UltraJet® All-Way
All-Way can be sprayed in any direction without the risk of dispensing a liquid spray. 100% pure HFC-134A.
No. 237CH620 8 oz. Aerosol **$8.80**

A



Freez-It®
Use this to locate thermal intermittent components and test PC boards for trace continuity. Provide heat sink protection for components during soldering and desoldering operations. Effectively loosens hardened adhesives for easy removal.



No. 237OZ1050 10 oz. Aerosol **$10.25**
No. 237OZ550 15 oz. Aerosol **$14.65**

Cleaner Degreasers

Safe on plastics, these general-purpose electronics and electrical cleaning products are engineered to clean a wide variety of oils, grease, oxides and handling soils from electronics equipment and assemblies.

Electro-Wash® PX
Electro-Wash® 2000 contains no CFCs, evaporates instantly, is non-corrosive and safe for most surfaces. Formulated to quickly penetrate and remove the toughest soils and contaminants. The ideal choice for cleaning PC boards and other electronic assemblies. 12.5 oz. Aerosol.
No. 237OZ210 .. (1-11) **$12.30 ea.**
(12+) **$11.19 ea./case lots**

Electro-Wash® NX
A powerful electronic cleaner/degreaser which is non-corrosive and safe for metals. A fast-drying, nonflammable cleaning agent specially formulated for electrical and electronic assemblies. Check for compatibility on plastics. 14.5 oz. Aerosol.
No. 237OZ601 (1-11) **$12.10 ea.**
(12+) **$11.59 ea.**

"Non-Ozone Depleting"

Electro-Wash® CZ
Excellent general-purpose electronics cleaner and degreaser. Cleans PC Boards, precision devices, control systems and other electronic assemblies. Non-flammable. It's safe for use on energized equipment. Evaporates quickly–leaves no residue. 12 oz. Aerosol.
No. 237CH7100 .. **$25.85**

Contact Cleaners

Contact cleaners remove oils, carbon soils, greases and oxides from contact surfaces. Use in all phases of electronics and electrical contact maintenance.

Pow-R-Wash™ PN
This high-performance, nonflammable cleaner is safe for use on powered-up contacts. Contains no CFCs or VOCs; Contains HCFCs and is safe for use on most plastics. Removes oily carbon soils, dirt, greases and other soils from contact surfaces. Evaporates quickly–leaves no residue. 12 oz. Aerosol.
No. 237CH167 .... **$18.60**

Pow-R-Wash™ NX
Heavy-duty metal-to-metal cleaner! Nonflammable and noncorrosive, this solvent removes oils, grease, dirt, adhesive, soils, oxides and contaminants from electrical and electronic contacts. It evaporates quickly and is safe for sensitive metals. Check compatibility on acrylics, ABS, poly-carbonates. 12 oz. Aerosol.
No. 237OZ602 ..... **$12.50**

"Non-Ozone Depleting"

Pow-R-Wash™ CZ
Recommended for every phase of electronics and electrical contact maintenance including metal contacts and more! Safe for energized equipment. Rapidly removes oily carbon soils, greases and oxides. Low surface tension-flushes tight tolerance areas clean. Nonflammable. Evaporates quickly–leaves no residue. 12 oz. Aerosol.
No. 237CH7300 .... **$26.75**

Dry Wipes

These dry wipes are designed for controlled environments, sensitive cleaning (i.e. optical surfaces) and for high absorbancy applications.

Controlwipes™
Packaged in a Class 100 cleanroom environment, these wipes are a polyester-cellulose blend that will not tear or shred. Will not abrade surfaces. And they are resistant to most solvents, alcohols and dilute acids. 9" x 9", 150 pads.
No. 237UN010 ..... **$24.00**

Twillwipes™
Highly absorbent, use Twillwipes for abrasion-free cleaning and drying of sensitive surfaces, components and equipment. Plus, they are resistant to caustic solvents and temps to 150°F. 9" x 9", 150 pads.
No. 237UN012 ..... **$53.30**

Opticwipes™
Packaged in a Class 100 cleanroom environment, the 100% cellulose wipes are highly absorbent. They are non-contaminating, lint free and solvent resistant. 9" x 9", 500 wipes.
No. 237UN014 ..... **$28.00**

Quantity Discounts Available Call for Details.

Chemtronics

Repair/Prototype Tools

Quick-drying and easily-applied repair/prototype tools are packaged in conveniently-sized dispensers, allowing for precision repair and prototyping. The coatings air dry in minutes.

Conductive Pen

For electronic prototype, manufacturing and repair to draw a highly conductive, air dry, silver conductor to link components, repair defective circuit traces and make smooth jumpers. Dries in 5 to 10 minutes.

No. 237CH200 Standard Tip 0.3 oz. **$14.50**
No. 237CH202 Micro Tip 0.3 oz. **$14.50**

Quick-Bond Gel Adhesive Kit

This nonmigrating, cyanoacrylate gel provides superior bond strength for plastic, rubber, and metal. Great as a gap filler or bonding dissimilar items. 0.10 oz. tube

No. 237CH208 ..... **$7.25**

Flex Conductive Pen

The micro-tip pen is used for drawing flexible conductive silver traces on Mylar™ and flex circuitry. Dries in minutes. 8.5g (0.3 oz).

No. 237CH900 ..... **$18.75**

Rubber Keypad Repair Kit

This rubber keypad repair kit restores electrical conductivity to worn carbon contacts. Single Pack Adhesive 3g; Curing Agent 0.3g.

No. 237CH605 ..... **$10.05**

Conductive Epoxy

For materials that can't be soldered, use this two-part conductive epoxy for general purpose conductive bonding in repair and prototype applications. Quick-cure, perfect for bonding heat sensitive components.

No. 237CH204 0.25 oz. tube **$19.40**

Heat Sink Grease

A silicone compound that facilitates heat transfer away from electrical/electronics components. Will not dry out, harden or melt. Nonflammable, noncorrosive. *Meets Mil-C-47113.*

No. 237CH405 5 oz. tube..... **$12.95**

Gold Guard™ Pen

Clean and lubricate gold and other noble metal contacts or connectors. Extends the life of noble metal.

No. 237CH740 (CW7400) 8.5g (0.3 oz) **$8.35**

Conformal Remover Pen

Remove silicone, acrylic, urethane and most other types of coatings in seconds with your Conformal Coating Remover Pen. Evaporates quickly while providing low surface tension. 9g (0.32 oz).

No. 237CH500 ..... **$8.95**

Overcoat Pen

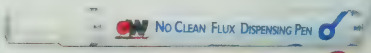
Use this dielectric conformal overcoat pen to protect and insulate circuit boards and more. When used to repair solder mask, this material insulates against high-voltage arcing and corona shorts. 0.16 oz.

No. 237CH206 Green..... **$11.75**
No. 237CH3300 Clear **$11.75**

Conductive Grease

Provides electrical and thermal conductivity lubrication and protection from moisture, corrosion, and other environmental hazards.

No. 237CH710 Silver, 0.12 oz. syringe **$14.95**



Flux Dispensing Pen

Your no clean flux dispensing pen applies a patented noncorrosive, halide free, organic no-clean flux with precision and control. Meets Bellcore TR-NWT-000078 . 9g (0.32 oz).

No. 237CH800..... **$5.00**

Applies a noncorrosive Type R flux with precision and control. Meets MIL E+F Type R and RMA. *(Not Shown.)* 9g (0.32 oz).

No. 237CH820 ..... **$4.85**

Flux Remover Pen

Your fast-drying pen precisely removes flux from printed circuit boards in seconds.

No Clean Flux Remover Pen (Shown)
No. 237CH910 9g (0.32 oz) **$6.95**
Rosin Flux Remover Pen
No. 237CH920 8g (0.28 oz) **$6.65**

Conformal Coatings

For spray, dip tank and brush applications. Protect printed circuit boards, components and flex circuitry from damage! These coatings provide excellent electrical insulation properties that withstand hot and cold.

Konform® SR

Silicone-resin-formula solvent conformal coating with maximum flexibility for extreme temperatures. *Meets MIL-46058C. Type SR.*

10 oz. Aerosol.
No. 237CH012 .... **$16.70**
One gallon liquid.
No. 237CH001 .. **$151.40**

Konform® AR

Protect printed circuit boards, thick film circuits and components from damage. Acrylic-resin-formula solvent conformal coating with high dielectric strength. No arcs. No shorts. *Meets MIL-46058C.* 10 oz. Aerosol, Type AR.

No. 237CH210 ..... **$13.90**

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Conformal Coat Remover Pen

Quickly and precisely remove most conformal coatings including acrylic, urethane, and silicones with the Conformal Coating Remover Pen. **(USA)**

No. 754CH120 ..... **$6.40**

PowerPen™

PowerPen™ is a battery contact cleaner that inhibits and removes oxidation on all types of batteries and terminals of battery powered products. This means you will spend less money on batteries because PowerPen will maximize your battery's performance. *(Not for car batteries and zinc air batteries.)*

No. 106PR080 ..... **$4.95**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

VCI-101 Foam Device

This impregnated foam device protects up to 1 cubic foot (28 liters) of enclosed space for two years. Typical applications include electrical equipment, electric motors, fuse boxes, communication equipment, and medical equipment. Comes with a special self-stick back and self-stick label on which to write the installation date. Approved for use by the military-NSN# 6850-01-338-1392.

No. 275PR086 ..... **$2.75**

VCI-105 & VCI-111 Emitter Cups

New!

These plastic emitter cup with a breathable Tyvek membrane are typically used for electrical equipment, electric motors, fuse boxes, communications equipment and medical equipment. The VCI-105 protects up to 5 cubic feet (96 liters) and VCI-111 protects 11 cubic feet (213 liters) of enclosed space for up to two years. Comes with a special self-stick back and self-stick label on which to write the installation date.

VCI-105 Cup

No. 275PR087 2-1/2" x 3/4" **$6.25**

VCI-111 Cup

No. 275PR088 2-1/2" x 2" **$10.50**

EcoClean® 423 Rust Remover

This non-polluting rust remover is a water-based, non-toxic gel that offers multimetal corrosion protection while removing rust from steel, iron, copper, brass, and chrome. Ideal for hard to reach or vertical surfaces, scale and oxide removal, and ferrous or non-ferrous metals. 16 fl. oz.

No. 275CH150 ..... **$6.75**

EcoSpray® 389 Rust Blocker

New!

Blocks rust in areas where outdoor corrosion protection is needed. Effective non-hardening film. Typical applications are metal parts stored outdoors, automotive parts, and maintenance repairs. 16 fl. oz.

No. 275CH146 ..... **$7.75**

Ecoline® All Purpose Lubricant

This all-purpose biodegradable lubricant was designed for industrial, shop and home uses. It contains a friction modifier and extreme pressure additive. It is safe for use on all metals and for most plastics. Perfect for both indoor and outdoor applications. **Features:** industrial concentrate; modified for use with extreme pressure loads; greaseless lubricity. Includes proprietary VCI technology. Formulation is soybean oil methyl ester solvent base.

No. 275CH157 ..... **$9.20**

EcoClean® 433 Graffiti Remover

This heavy-duty gel removes, ink and paints from metal, wood and concrete. This low odor cleaner is non-flammable and free of methylene chloride and ketones. Typical applications are graffiti removal from metal, wood or concrete surfaces, garage or other doors, walls, floors, driveways and paint removal. 16 fl. oz.

No. 275CH149 ..... **$11.75**

Corwipe® 450 Wipes

Corwipe® 450 removes grease, oil, and dust, also cleans rubber, synthetic materials, vinyl, painted surfaces, plexiglass, and glass. Leaves behind a protective antistatic coating and thin corrosion inhibitive film. Non-hazardous, non-corrosive, non-flammable, and is not harmful to the atmosphere. Typical applications are static-sensitive equipment, aircraft and satellite components, communications equipment, and computer equipment.

No. 275PR094 ..... **$75.00**

New!

EcoSpray® 238 Electronic Cleaner

Excellent contact cleaner of oils, grime and other contaminants. Leaves behind Cortec® VCI corrosion protection. Silicone-free, this product will not affect electrical resistance or magnetic properties. Typical applications are printed circuit boards, electric motors, electrical contacts or components. 16 fl. oz.

No. 275CH147 ..... **$7.50**

Wipes

Rinse-Free Hand Cleaning. Anywhere! Anytime!

Scrubs-In-A-Bucket

Cleans the toughest soils, greases, tar and even printer ink from your hands. Each dispensing canister contains 72-each 12-1/4"L x 10-1/2"W perforated hi-strength absorbent cleaning towels, treated with a gentle-to-skin but effective heavy-duty grease-cutting formula. Leaves the skin lotion-soft, with a natural citrus fragrance. Contains germ-fighting Triclosan™.

No. 307CH422 (1-11) **$14.70 ea.** (12+) **$14.00 ea.**

Medium Duty Wipes.

WypAll®

All-around strength, softness and absorbency. **Specs:** Brand: 03045; Size: 11" x 10.4"; Color: white; Case Size: 25-1/2" x 19-1/4" x 12". Box Count: 64 wipes. 12 boxes/case.

No. 630UN045 ..... **$61.10/case**

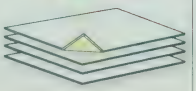
Light Duty Wipes.

WypAll® Light

Super-soft and absorbent, economically-priced. **Specs:** Size: 11" x 10.4"; Box Count: 100 wipes. 12 boxes/case.

No. 630UN080 *(Not Shown.)*.. **$75.50/case**

Lint-Free Wipes



100% lint-free wiper has high utility in cleanroom production or assembly areas. A must in your contamination prevention program. (Approx. 14" sq.)

No. 362UN200 ..... **$27.95/dz.**

Kimwipes Disposable Wipes

Completely lint-free, safe in all white rooms. For wiping items in & outside of cleanroom. Safe, low-cost cleaning & polishing with soft, cloth-like wiper. Handy pop-up carton available in two sizes.

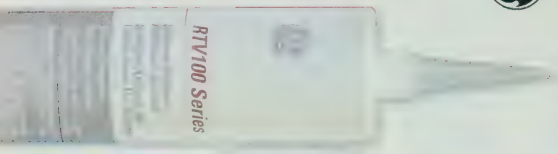
(4-1/2" x 8-1/2" wiper)
280 wiper/pack, 60 pks/carton.
No. 134UN010 ..... (1-5) **$139.90** (6-11) **$129.90** (12+) **$119.90**

(15" x 17-5/8" wiper) 140 wiper/pack, 15 pks/carton.
No. 134UN012 ..... (1-5) **$105.65** (6-11) **$100.65** (12+) **$95.65**

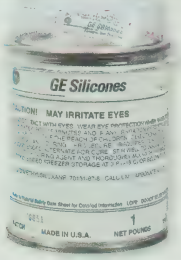
Kimwipes Box Holders

Great for holding your small or large Kimwipe boxes. This acrylic, clear holder has extra weight for one-hand dispensing. Large wall mount comes with mounting screws or tape. **(USA)**

No. 174PR224 Small box 4.5" x 8.5" **$9.95**
No. 174PR234 Large box 15" x 17" **$12.95**



Other Dispenser Sizes Available Call Today!

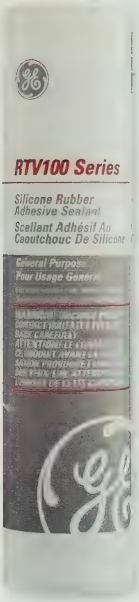


Potting and Encapsulating Compounds - Addition Cure

JUST THE FACTS			
Product Number	RTV615	RTV627	RTV630
TT No.	395CH150	395CH627	395CH630
Application	Requiring Visual ID of Potted Assemblies	Flyback Transformer Encaisulation	High-Temsile Strength Encalsulation
Color	Clear	Dark Gray	Blue
Viscosity, cps (@ 25C/77°F)	4,000	1,270	150,000
Specs	FDA	-	-
Packaging	1 pint kit	2 gal. kit	1 pint kit
PRICE	$28.25	$229.20	$39.25

Potting and Encapsulating Compounds - Condensation Cure

JUST THE FACTS			
Product Number	RTV11	RTV60	RTV566
TT No.	395CH011	395CH060	395CH566
Application	Medical instruments, High-Voltage Power	Low Out-Gassing Product	Potting Encalsulation & Coating
Color	White	Red	Red
Viscosity, cps (@ 25C/77°F)	11,000	47,000	42,700
Specs	FDA	-	Low Volatility
Packaging	1 pint	1 gal. kit	1 pt. kit
PRICE	$22.50	$30.40	$258.20



Acetoxy Cure High-Performance Sealers

Acetoxy cure silicones are the most commonly used type of RTV materials. Temp Range: -60° to 205°C.

JUST THE FACTS						
Product Number	RTV102	RTV103	RTV108	RTV109	RTV112	RTV118
TT No.	395CH103	395CH105	395CH101	395CH109	395CH112	395CH118
Application	High-Strength, high Performance Sent Against Moisture, Dust & Dirt; Vertical & Overhead Sealing & Bonding; Electrical Insulation; Protect Components from Shock and Vibration				Thin-section Protective Coating; Seal, Bond, Insulated and Encapsulate	
Color	White	Black	Translucent	Aluminum	White	Translucent
Description	High Strength Paste	High Strength Paste	High Strength Paste	High Strength Paste	General Purpose	General Purpose
Specs	FDA, MIL, NSF	FDA, MIL, NSF	FDA, MIL, NSF	FDA, MIL, NSF	FDA, MIL, NSF, UL	FDA, MIL, NSF, UL
Substrate Adhesion	Aluminum, Steel, Glass, Polyester (PBT)				Aluminum, Steel, PC/PBT, Polyester (PBT)	
Packaging	10.1 Fl. oz Cartridge	10.1 Fl. oz Cartridge	10.1 Fl. oz Cartridge	10.1 Fl. oz Cartridge	10.1 Fl. oz Cartridge	10.1 Fl. oz Cartridge
PRICE	$4.30	$4.30	$4.30	$4.30	$9.95	$9.95

Alkoxy Cure Silicone Adhesives

Neutral-cure materials that offer exceptional adhesion. Temp range: -60°-205°C (-75°-400°F).

JUST THE FACTS						
Product Number	RTV160	RTV162	RTV167	TSE392	TSE397	TSE399
TT No.	395CH160	395CH162	395CH167	395CH392	395CH397	395CH399
Application	Non-Corrosive for Metal and Plastic	Non-Corrosive Printed Circuit Boards	Non-Corrosive Bonding of Integrated Circuits to PCB's	Highest-Strength Adhesive	Non-Corrosive Adhesive/Sealant Coating	Non-Corrosive Adhesive/Sealant Coating
Color	White	White	Gray	Translucent	Translucent	Translucent
Description	Non-Corrosive Pourable	Non-Corrosive Paste	High-Strength paste	Thixotropic paste	Semi Flowable	Flowable
Specs	UL	UL, MIL	UL, MIL	MIL	FDA, MIL	FDA, MIL
Substrate Adhesion	Copper, Brass, Nylon Aluminum, PC/PBT	Copper, Brass, Aluminum, PC/PBT	Copper, Brass, ABS Aluminum, PPO	Most Metals and Plastics	Most Metals and Plastics	Most Metals and Plastics
Packaging	10.1 Fl. oz Cartridge	10.1 Fl. oz Cartridge	10.1 Fl. oz Cartridge	100 gram tube	100 gram tube	100 gram tube
PRICE	$28.85	$15.30	$42.25	$10.45	$16.00	$16.00

Modified Alkoxy General Purpose Adhesive Sealants

Cure at room temp and will outgas a small amount of ammonia and some alcohol during cure. They are generally non-corrosive to metals but could discolor copper if in direct contact. Temp range: -60° to 205°C (-75° to 400°F). UL Listed

JUST THE FACTS			
Product Number	RTV121	RTV123	RTV128
TT No.	395CH122	395CH123	395CH128
Application	General-Purpose Adhesive Sealant for bonding Metals, Plastics and Glass		
Color	White	Black	Translucent
Description	General Purpose	General Purpose	General Purpose
Substrate Adhesion	Aluminum, Steel, PC/ABS Polycarbonate, Polyester PBT)		
Packaging	10.1 Fl. oz Cartridge	10.1 Fl. oz Cartridge	10.1 Fl. oz Cartridge
PRICE	$6.35	$6.35	$6.35

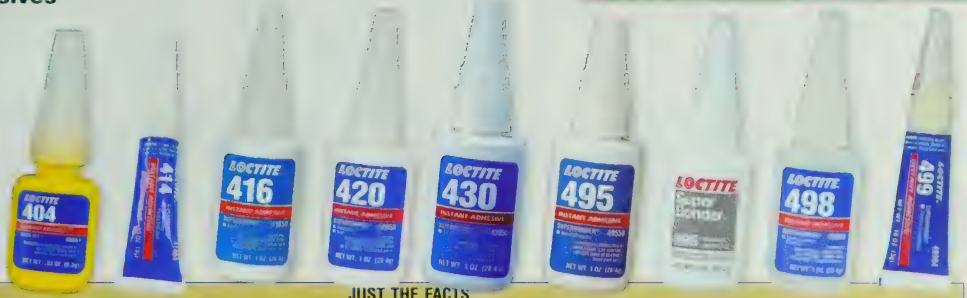
High Temperature – Specialty Grade Silicone Adhesive Sealants

One-part materials that offer outstanding adhesion coupled with high temperature, low-voltage content and high strength. Temp range: -60° to 260°C (-75° to 500°F). *(Not for use in delicate electrical and electronic applications in which corrosion of copper, brass or other sensitive metal is undesirable.)*

JUST THE FACTS				
Product Number	RTV106	RTV116	RTV159	RTV157
TT No.	395CH106	395CH116	395CH159	395CH157
Application	Encapsulate & Seal Heating Elements	High Temperature	High Strength	Gasketing and Electrical
Color	Red	Red	Red	Gray
Description				
Specs	FDA, MIL	MIL	N/A	N/A
Substrate Adhesion	Aluminum, Glass Steel, PC/PBT	N/A	N/A	Aluminum, Glass Steel, PC/PBT
Packaging	10.3 fl. oz tube	10.3 fl. oz tube	2.8 fl. oz tube	2.8 fl. oz tube
PRICE	$25.60	$27.90	$12.50	$12.55

SuperBonder® Instant Adhesives

High-strength, fast-setting, cyanoacrylate adhesives that bond metals, alloys, plastics, glass, ceramics and rubber – together or in combination. Instant fixturing, high performance. Nonclog recapturable tip.



JUST THE FACTS

Product No.	404	414	416	420	430	495	496	498	499
Typical use	Rubber "O"-Ring Bonder	Plastic Bonder	Gap Filling Bonder	Plastic Bonder	Metal Bonder for Close-Fitting Parts	General Purpose	General Purpose Rubber Bonder	Thermal Cycling	Thermal Cycling
Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear Ge
Gap Fill	0.005"	0.006"	0.008"	0.002"	0.005"	0.004"	0.006"	.007"	.010
Resin Base	Ethyl	Ethyl	Ethyl	Ethyl	Methyl	Ethyl	Methyl	Ethyl	Ethyl
Viscosity cP	80	110	1,500	2	80	45	125	500	Gel
Strength psi Tensile Shear	3,500	3,200	3,200	2,900	3,600	2,750	3,600	3,000	5,000
Temperature Range	-65°-180°F-	-65°-180°F	-65°-180°F	-65°-180°F	-65°-180°F	-65°-180°F	-65°-180°F	-65°-250°F	-65°-200°F
Cure Speed Fixture	30 sec.	20 sec.	30 sec.	20 sec.	30 sec.	20 sec.	30 sec.	50 sec.	75 sec
Full Cure	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs
3g. Tube	–	**512CH414**	–	–	**512CH430**	**512AD074**	–	–	**512CH994**
PRICE	–	**$3.15**	–	–	**$2.80**	**$2.70**	–	–	**$3.10**
1/3 oz. Bottle	**512AD072**	–	–	–	–	–	–	–	–
PRICE	**$17.55**	–	–	–	–	–	–	–	–
20g. Tube Bottle	**512CH945**	–	–	–	–	–	–	–	–
PRICE	**$13.35**	–	–	–	–	–	–	–	–
1 oz. Bottle	–	**512AD056**	**512CH650**	**512AD050**	**512AD064**	**512AD076**	**512AD082**	**512CH850**	–
PRICE	–	**$16.50**	**$15.15**	**$21.90**	**$15.49**	**$15.15**	**$15.45**	**$16.70**	–
4 oz. Bottle	**512AD404**	–	–	–	–	–	–	–	–
PRICE	**$113.65**	–	–	–	–	–	–	–	–
1 lb. Bottle	**512AD465**	**512AD414**	–	–	**512AD430**	**512AD495**	**512AD496**	–	–
PRICE	**$230.25**	**$136.00**	–	–	**$154.65**	**$151.75**	**$154.65**	–	–

A B C D E F G H

JUST THE FACTS

	A	B	C	D	E	F	G	H
Product No.	E-00CL	E-00NS	E-05CL	E-90FL	E-60NC	E-20NS	U-05FL	E-120HP
Features	Fast Setting, Flowable, Low odor	Non-Sag, Controlled Flow, Low odor	Toughened, High Peel, Low odor	Toughened, Flexible, Impact Resistant	Electrically, Non-Corrosive, Low Viscosity	Metal Bonder, Non-Sag, High Peel, High Sheer	Metal Bonder, Highly flexible, High Peel, High Sheer	Ultra strength, Non-Sag, Aerospace, Grade
Color	Clear	Translucent	Ultra Clear	Grey	Black Opaque	Light Tan	Off-White	Amber
Viscosity	Low	High	Low	Medium	Low	High	Low	High
Worklife(minutes)	3-5	3-5	3-5	90	60	20	5	120
Shear Strength (PSI)	2000-4000	2000-4000	2000-4000	1000-3000	1000-3000	2000-4000	1000-3000	3000-6000
Hardness (Shore D)	80	80	55	60	85	90	45	85
Size Dual Cartridge	50ml	50ml	50ml	50ml	50ml	50ml	50ml	50ml
TT No.	**512CH289**	**512CH293**	**512CH299**	**512CH309**	**512CH323**	**512CH334**	**512CH348**	**512CH353**
PRICE	**$8.80**	**$8.80**	**$9.30**	**$8.80**	**$7.70**	**$8.80**	**$9.20**	**$8.80**

A

B

50ml Dispenser

Manual dispensing gun for use with DURABOND 50ml double barrel cartridges. Comes with two different plungers, allowing it to be used with either 1:1 or 2:1 ratio cartridge.

A. No. 512AC531 ..... **$26.10**

Mix Nozzle

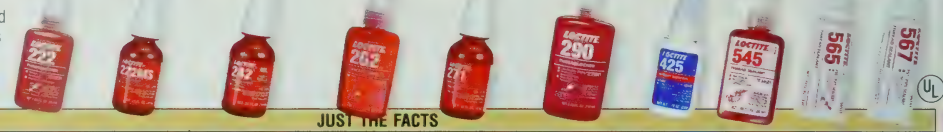
Disposable, plastic nozzles conveniently attach to DURABOND double barrel cartridge. Adhesive is automatically mixed as it travels through the nozzle 50ml Mix Nozzle-6.3mm ID. Stepped End. 10/pack

B. No. 512AC441..... **$11.25/Pk.**

HAZ-MAT INFORMATION All products appearing with this symbol incur an additional per shipment surcharge which will appear on your invoice. Products appearing with this symbol will not incur an additional per shipment surcharge. Items with either symbol must ship via Ground Carrier. We strongly suggest the user purchase in case quantities to minimize your cost. *HAZ-MAT items are non-refundable & non-returnable!*

Threadlockers

Threadlocker Adhesives are standard in the assembly of everything from delicate electronic components and critical aerospace systems to heavy construction equipment.



JUST THE FACTS

Product No.	222	222MS	242™	262	271™	290	425	545	565	567
Typical Use	Small screws under 3/4" bolts	Easy removal small screws	Removable grade up to 3/4" bolts	Permanent locking-up to up to 1" dia.	High strength for fasteners parts	Wicking grade for preassembled fasteners	For small plastic	Hydraulic Sealant	Controlled Strength Fittings	Stainless Steel
Color	Purple	Purple	Blue	Red	Red	Green	Blue	Purple	White	White
Viscosity cP Gap Tool	1,200/5,000 Thixotropic	1,200/6,000 Thixotropic	1,200/6,000 Thixotropic	1,800/5,000 Thixotropic	500	12	60	14,000	300.00	540.000
Torque in pounds (M10 steel nuts and bolts) Break/Prevail	53/30	62/27	115/53	190/275	230/320	85/250	5/4		Sealant	Sealant
Temperature Range	-65°F to 300°F	-65°F to 300°F	-65°F to 300°F	-65°F to 300°F	-65°F to 300°F	-65°F to 300°F	-65°F to 180°F	-65°F to 300°F	-65°F to 300°F	-65°F to 300°F
Cure Speed. Steel @ 25°C Fixture	20 min.	20 min.	10 min.	20 min.	10 min.	20 min.	2 min.	seals to 10,000 psi.		
Full	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	14 hrs.			
Recommended Primer	N or T	N or T	N or T	N or T	N or T	N or T	–	N	–	
MIL-SPEC (S-46163A)	–	Type II. Grade M	Type II. Grade N	Type II. Grade O	Type I, Grade K	Type III, Grade R	–	–		**6 mil tube**
.5 mL Capsule	–	–	**512CH205**	**512CH262**	**512AD271**	**512CH290**	–			**512CH707**
PRICE	–	–	**$1.30**	**$1.30**	**$1.30**	**$1.30**	–		–	**$3.80**
10 mL Bottle	**512CH463**	**512AD034**	**512AD038**	**512AD221**	**512AD042**	**512AD046**	–		–	–
PRICE	**$9.55**	**$9.55**	**$9.55**	**$9.55**	**$9.55**	**$9.55**	–		–	–
20 gram Bottle	–	–	–	–	–	–	**512AD425**	–	–	–
PRICE	–	–	–	–	–	**$15.75**	–	**Tube**	**Tube**	–
50 mL Bottle/Tube	**512CH464**	**512AD036**	**512AD040**	**512AD222**	**512CH131**	**512CH031**	–	**512CH531**	**512CH532**	**512CH747**
PRICE	**$27.20**	**$27.20**	**$27.20**	**$27.20**	**$27.20**	**$27.20**	–	**$27.20**	**$12.20**	**$13.80**

Clean-up Solvent 768

Safely clean and dissolve cured cyano-acrylate adhesive from surfaces and clothing or use to debond parts.
Solvent: Nitromethane gas; flash point 95°F.
No. 512CH768 (76820) .. **$19.99** ea.

Depend Adhesive Kits

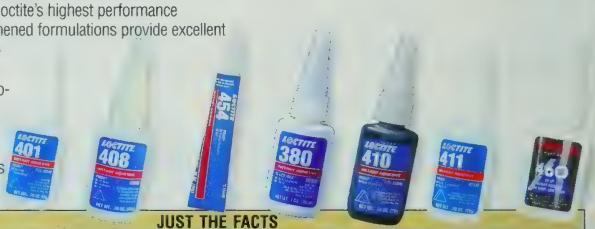
Loctite Depend adhesives were developed for bonding applications requiring tensile, shear and peel strength combined with maximum impact, stress and shock resistance.

JUST THE FACTS

Product No.	330
Typical Use	Rough or porous surfaces
Color	Amber
Gap Fill	0.030"
Viscosity cP	67,500
Sheer Strength (PGI)	3,300
Temperature Range	-65°F to 250°F
Cure Speed Fixture	5 min.
Full Cure	24 hrs.
25 mL Syringe Kit	**512CH251**
PRICE	**$19.90**
1 Liter Bottle Kit	**512CH081**
PRICE	**$92.40**

Prism® Instant Adhesives

Prism® Adhesives are Loctite's highest performance instant adhesives. Toughened formulations provide excellent peel, impact and tensile sheer strength. Surface insensitive products provide fast strong bonds on a variety of difficult-to-bond substrates, including rough, porous and acidic surfaces.



JUST THE FACTS

	Surface Insensitive Products				Toughened Products		
Product No.	**401**	**408**	**454**	**380**	**410**	**411**	**460**
Typical Use	General Purpose	Wicking Grade	Porous Surfaces	Close Fitting Parts	Gap Filling	Clear Gap Purpose	Close-Fitting Parts
Color	Clear	Clear	Clear	Black	Black	Clear	Clear
Gap Fill	0.005"	.002"	0.010"	0.006"	0.008"	0.008"	0.004"
Resin Base	Ethyl	Alkoxy	Ethyl	Ethyl	Ethyl	Ethyl	Alkoxy
Viscosity cP	110	5	Gel	200	3,500	5,000	45
Strength (PSI) Tensile Shear	3,200	2,600	3,200	3,750	3,200	3,200	2,600
Temperature Range	-65°-180°F	-65°-160°F	-65°-180°F	-65°-225°F	-65°-225°F	-65°-210°F	-65°-160°F
Cure Speed Fixture	15 sec.	50 sec.	15 sec.	90 sec.	90 sec.	30 sec.	50 sec.
Full Cure	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.
3g. Tube	**512AD104**	–	**512CH404**	**512CH004**	**512CH410**	**512CH104**	**512CH6004**
PRICE	**$3.85**	–	**$3.85**	**$3.85**	**$3.85**	**$3.85**	**$3.85**
20g. Tube/Bottle	**512AD401**	**512CH840**	**512CH440**	–	**512AD045**	**512AD411**	**512CH044**
PRICE	**$15.60**	**$17.50**	**$16.65**	–	**$17.10**	**$17.00**	**$17.50**
200g. Tube	–	–	**512AD474**	–	–	–	–
PRICE	–	–	**$100.78**	–	–	–	–
300g. Cartridge	–	–	**512AD454**	–	–	–	–
PRICE	–	–	**$156.45**	–	–	–	–
1 oz. Bottle	–	–	–	**512AD050**	–	–	–
PRICE	–	–	–	**$21.90**	–	–	–
1 lb. Bottle	**512AD016**	–	–	**512AD380**	**512AD410**	**512AD161**	–
PRICE	**$188.15**	–	–	**$209.85**	**$209.85**	**$209.85**	–

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Retaining Adhesives

These anaerobic adhesives are designed to increase the shear strength of cylindrical, non-threaded assemblies. Fills the "inner space" between components and cures to form a strong assembly.

JUST THE FACTS				
Product No.	**603**	**609**	**660**	**680**
Typical Use	Close fitting parts; light contaminator	Augments Press Fits	Repair Worn Machine parts	Hi strength for slip fit parts
Color	Green	Green	Silver	Green
Viscosity cP Gap Tool	125 .005"	125 .005"	250.000 .020"	1.250 0.015"
Torque in pounds (M10 steel nuts and bolts) Break/Prevail	3770 psi.	3,000 psi.	3,335 psi.	4,000 psi.
Temperature Range	-65°F to 300°F	-65°F to 300°F	-65°F to 300°F	-65°F to 300°F
Cure Speed, Steel @ 25°C Fixture Full	 30 min. 24 hrs.	 10 min. 24 hrs.	 10 min. 24 hrs.	 10 min. 24 hrs.
Recommended Primer	T	T	N	T
MIL-SPEC	–	R-46082B	–	NSF/ANSI61
10 mL Bottle	**512CH603**	**512AD094**	**(6mL)512CH660**	**512CH680**
PRICE	**$10.15**	**$9.55**	**$35.35**	**$11.50**
50 mL Bottle/Tube	–	**512CH609**	–	**512CH681**
PRICE	–	**$27.20**	–	**$31.60**

Tak Pak® Adhesive Kits & Accelerators

Tak Pak® is a self-contained adhesive system for a wide range of electronic assembly operations. Tak Pak® has proven superior performance to hot melts, RTV and other tacking alternatives; saves labor time, provides stress relief for soldered joints & solves engineering change problems. **Includes:** adhesive, accelerator and two needles. *Meets MIL-SPEC 1-46050C.*

JUST THE FACTS		
Product No.	**382**	**444**
Typical Use	Tak Pak Ultra Performance	Tak Pak Wire Tacking Adhesive
Color	Clear	Clear
Gap Fill	0.008"	0.007
Resin Base	Ethyl	Ethyl
Viscosity cP	5.000	700
Tensile Strength	3.200	3.200
Temp Range	-65°F to 250°F	-65°F to 180°F
Cure Speed Fixture	30 sec.	30 sec
Full Cure	24 hrs.	24 hrs.
Kit Only	**512CH382**	**512AD018**
PRICE	**$31.40**	**$20.65**
1 lb. Bottle	**512AD261**	**512AD444**
PRICE	**$209.85**	**$151.75**

Tak Pak® Accelerator 7452

ODC-Free acetone for board-level applications.

512CH7452 1.75 oz. Bottle **$5.75**
512CH580 1.75 oz. Pump **$6.00**
512AD637 0.7 oz. Mist **$10.80**

Tak Pak® Accelerator 712

For most thermal plastic substrates.

512CH389 1.75 oz. Pump **$6.30**
512CH636 0.7 oz. Metered Mist **$10.80**

Tak Pak® 444 Wire Adhesive Only

512AD030 20g btl. **$12.35**

Tak Pak® 382 Adhesive Only

512AD382 20g btl. **$17.00**

Medical Device Adhesives *New!*

These USP Class VI and/or ISO_10993 compliant products are designed specifically for the assembly of medical devices where toxicity testing and sterilization resistance are required.

JUST THE FACTS Surface Insensitive Products				
Product No.	**4011**	**4541**	**4081**	**4981**
Typical Use	General Purpose	Porous Surfaces	Wicking Grade	Thermal Cycling
Color	Clear	Clear Gel	Clear	Clear
Gap Fill	0.005"	0.010"	.002"	.007"
Resin Base	Ethyl	Ethyl	Alkoxy	Ethyl
Viscosity cP	110	Gel	5	500
Strength (PSI) Tensile Shear	3,200	3,200	2,600	3,000
Temperature Range	-65° to 180°F	-65° to 180°F	-65° to 160°F	-65° to 250°F
Cure Speed Fixture	15 sec.	15 sec.	50 sec.	50 sec
Full Cure	24 hrs.	24 hrs.	24 hrs.	24 hrs.
Cure Type	Moisture	Moisture	Moisture	Moisture
20g. Bottle	**512CH682**	**512CH690**	**512CH688**	**512CH694**
PRICE	**$18.60**	**$18.20**	**$19.35**	**$16.55**

Potting and Casting

Product No.	5084	5091	5140	5145
Application	Non Corrosive. Non Slumping, UV curing silicone for gasketing and sealing devices	UV curing silicone for high speed , shallow potting, coating & sealing of electrical connectors, connectors. High adhesive for difficult-to-bond substrats	Non Corrosive, Self-leveling RTV silicone for shallow, pottong sealing of electronic devices	Bonding, Sealing and Coating Electronic Devices. Meets MIL-A46146B
Cure Schedule	UV/Moisture 60 sec.	UV/ Moisture 60 sec.	Moisture 24hrs	Moisture 24hrs
Tensile	550psi	–	–	1,000psi
Elongation	200%	100%	750%	
Viscosity		5,500cP	35,000	
Hardness Gel Time	45 Shore A	34 Shore A Seconds	30 Shore A <3hrs	33 Shore A
TT Number	**512CH7631** 300 ml cartridge	**512CH412** 300ml Cartridge	**512CH8120** 85 g tube	**512CH9803** 300 ml cartridge
PRICE	**$59.55**	**$59.55**	**$16.30**	**$66.30**
TT Number	—	—	**512CH8117** 300ml Cartridge	—
PRICE	—	—	**$41.45**	—

Needle Point Oiler

Excellent for small lubricating projects. Superior to petroleum-based lubricants. Reduces friction and wear Odorless, clean and non-staining. Safe on rubber, plastic, wood and metal
No. 512CH333 ..... **$2.80**

Multi-Purpose Lubricant

All-purpose super lubricant that protects from wear, rust and corrosion. Won't melt, wash out, separate or attract dust
No. 512CH325 ..... **$4.70**

Light Cure Acrylics

Product No.	352	3106	3525	349
Appearance	Clear/ Light Amber	Clear/ pale straw	Clear/flour. Pale straw	Clear/ Straw
Cure Type	UV, H, A	UV, V	UV, U	UV
Primary Use	Bond	Bond	Bond/Seal/Pot	Bond
Key Substrates	GL, ME	PVC, PC, TP	GL, ME, TSP	GL,ME
Viscosity, CP	19,500	5,000	15,000	9,500
Elongation	340	250	260	300
Tensile Strength	4,840	2,700	3,500	4,500
Hardness	D 60	D 53	D 60	D 70
Temp. Range	-65° TO 300°	-65° to 300°	-65° to 300°	-65° to 300°
Shear, psi (1)	1,810 (steel/glass) 1,510 (all/glass)	4,980 (PC/PC) 2,860 (PC/PVC)	1,700 (Steel/glass) 1,580 (Al/glass) 1,430 (epoxy/glass)	1,440 (Steel/glass) 1,540 (Al/glass)
Torque, ft-lb (2)	70		70	85
Intensity	30, 50, 100	30, 50, 100	30, 50, 100	30,50,100
TT Number	**512CH241**	**512CH697**	**512CH220**	**512CH931**
Size	**50ml**	**25ml**	**25ml**	**50 ml**
PRICE	**$14.15**	**$25.75**	**$25.75**	**$21.35**
TT Number	**512CH286**	**512CH698**	**512CH221**	**512CH990**
Size	**1 liter**	**1 liter**	**1 liter**	**1 liter**
PRICE	**$203.85**	**$203.90**	**$254.80**	**$262.65**

Quick Service Sealant Kit

Design for the field or the bench, this kit includes Loctite most popular sealants. Kit includes: Locquic® Primer N 7649; Removable Threadlocker 242; Permanent Threadlocker 262; Prism® 454 Surf-Insensit Gel Instrument Adhesive; Gasket Eliminator™ 518 Instrument Seal/Flange Sealant; PST® Pipe Sealant 565 Thread Sealant; Ultra Blue RTV Silicone Gasket Maker; 660 Quick Metal® Press Fit Repair. **(USA)**

No. 512CH101 ..... **$71.20**

Big Foot™ Zero V.O.C. Anti-Slip Coating

New!

Big Foot™ epoxy flooring products provide tough, long-lasting anti-skid surfaces for added safety. Easily applied to potentially hazardous surfaces, Big Foot coating stands up to heavy traffic and harsh environments. This 100% reactive, solvent-free epoxy is used in odor-sensitive areas such as food processing plants, hospitals or for confined spaces. **Specs:** Coverage: 35 ft; Mixed viscosity,cp: 10,000; Maximum Temperature: 140°; Working time, minutes: 60; Functional cure hours: 24; Mix ration by weight, r:h: 8.5:1. 1 Gallon **(USA)**

No. 512CH321 ..... **$35.95**

Extend® Rust Treatment

One-step rust treatment goes on white and converts rust to a durable, black, metal-protective coating in 10 minutes. Wirebrush parts and apply with brush or spray. Use as a primer or finish coat. Resists temperatures to 250°F intermittent, 200°F continuous. **Specs:** Dry Time: 30 minutes to touch; Temperature Resistance: Up to 250°F (121°C). 10.5 oz net wt. Aerosol. **(USA)**

No. 512CH125 ..... **$6.70**

C5-A Copper Based Anti-Seized Lubricant

New!

Exclusive formula suspends copper and graphite in a high-quality grease. Protects metal parts from rust, corrosion, galling and seizing at temperatures to 1800°F (982°C). Tested to MIL-A-907. **(USA)**

No. 512CH001 1 oz. **$3.80**

No. 512CH002 4 oz. **$5.75**

A. Natural Blue® Cleaner & Degreaser

Biodegradable, all-purpose, industrial strength, concentrated cleaner and degreaser. Can be economically diluted with water. Natural Blue is formulated for wipe down, pressure spraying and immersion cleaning processes - at room temperature or heated. Pine-scented, non-flammable and non-toxic. Contains no ODCs. 24 oz. Spray Bottle. **(USA)**

No. 512CH249 ..... **$7.40**

B. ODC-Free Cleaner & Degreaser

A non-aqueous, hydrocarbon-based solvent designed for cleaning and degreasing surfaces to be bonded with adhesives, as well as for general purpose industrial cleaning. Safe on aluminum, rubber and most plastics, and will not cause flash rusting on water-sensitive parts. Dries residue free. Contains no ozone-depleting compounds. 15 oz. Aerosol Bottle. **(USA)**

No. 512CH355 ..... **$7.00**

C. Non-Flammable Electrical Contact Cleaner

Removes grease, oil and other contaminants from electrical parts to prevent contact failure. Dries residue-free in seconds. Non-conductive, non-corrosive, non-flammable. Contains no CFCs or Class 1 ODCs. Contains HCFC-141 b. May attack some sensitive plastics. **(USA)**

No. 512CH379 ..... **$11.55**

D. Plastic Cleaner

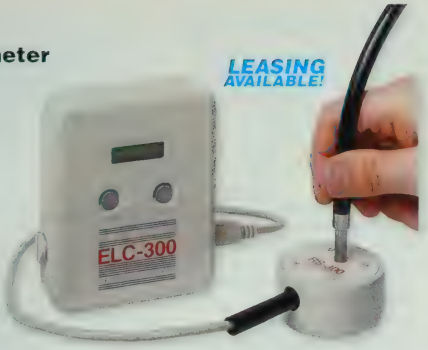
Cleans and polishes acrylic plastic surfaces, fiberglass, Formica, enameled surfaces, ceramics, stainless steel and glass - all without scratching. Removes dirt, grease and stains. Forms a water-repellent, anti-static shield which resists fogging. Contains no ODCs. **(USA)**

16 oz. Can

No. 512CH055 ..... **$3.40**

UV Radiometer

LEASING AVAILABLE!



Use to measure dosage of UV conveyorized and UV oven systems with the UV Radiometer. Its rugged design will withstand the extremes of UV and thermal radiation that are part of this curing environment. The remote sensor is interfaced with the UV Radiometer to measure irradiance (mw/cm² and W/cm²) of UV spot cure system. **Features:** Measures UV irradiance up to 19.9 W/cm²; Measurements in mw/cm²,W/cm², mJ, J and case temperature °C; RS-232 Interface; Battery - operated, auto power down, low battery indicator; high temperature alarm. **Specs:** Display: 8-Character LCD Display; Range: 0.00 - 9.99 mW/cm² - 0.00 - 19.9 W/cm², 0.00-9.99mJ - 0.00 - 99.9 J; Accuracy: ±5% typical; Spectral Response: UVA 315 - 400nm UVB 300 - 315nm. Operating Temperature: 0 - 55°; Auto Power Down: 3 minutes. **(USA)**

No. 335PR300 ..... **$1345.00**

UV Light Spot-Cure System

This UV spot curing system is designed specially for the electronic, medical device, and telecommunication industries. The solid-state electronic power supply employs voltage regulation and auto-ranging features, ensuring a consistent output over the life of the lamp. Clearly audible and distinct, On and Off, audible tones provides eye-free confirmation of lamp status. The audible timer, with setting of 20, 30, 40, 50, and 60 seconds as well as continuous, allows you both precise and varied curing options. With its lightweight, 11 once hand-piece , and 360° swiveling light guide, will resolve the most complex, geometrically challenged application. This unit is supplied with an 11mm curved-tip light guide. **Specs:** Power Input: 100-120V (50/60 Hz); Lamp Input: 75W; Lamp UV Output: 70mW/cm²; Lamp Visible Output: 700mW/cm. **(USA)**

No. 335PR214 ..... **$998.00**

Light Guide

3mm x 70mm curved tip
No. 335TI492 ..... **$152.00**

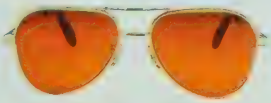
8mm x 46mm straight tip
No. 335TI494 ..... **$121.00**

8mm x 70mm curved tip
No. 335TI496 ..... **$128.00**

11mm x 84mm curved tip
No. 335TI499 ..... **$182.00**

Dual 7mm (Bifurcated)
No. 335TI851 ..... **$351.00**

UV Eye Protectors



These high performance eye protector which is certified to completely filter out light wavelengths from 200 to 540 nanometers, providing complete blockage of the ultraviolet spectrum as well as complete protection from harmful "blue light". Manufactured with UV wavelength inhibitors as an integral component of the lens. Surface coated lenses are homogeneously dispersed throughout the lens as well as the side shields. Eye protectors provide an absolute minimum of 99% protection form suspect radiation over the 200-540 nanometer spectrum with negligible degradation of normal vision. **(USA)**

No. 335PR134 Clip-on **$59.00**
No. 335PR138 Standard Metal Frame **$65.00**
No. 335PR140 Side Shield **$39.00**

New!

UV/Visible Light Exposure Chamber

This system is an array of custom designed lamps emitting a peak wavelength at 365nm for use in the generation of the longwave UVA portion of the spectrum which is most effective in the rapid curing of UV activated materials. Features a digital countdown programmable timer, power-down mode. safety interrupt chamber switch, and an exposure completion audible signal. Designed with a clear rotating turntable as well as a clear shelf. The internal chamber is lines with a highly reflective material assuring even light distribution, eliminating the danger of shadowing. **Specs**: Input Voltage: 100 - 120V AC, 60Hz, 1.5A; Power Supply: Solid State Electronics; Lamp: UVA-365nm, 9W x 4, visible-450nm, black light - 365nm Turntable: 4" diameter, 6 r.p.m.; Self: 5"W x 8.75"D. **(USA)**

No. 335PR432 UVA 365nm **$730.00**
No. 335PR433 Visible 450nm **$730.00**

Rapid-Cure Spot-Cure System

Developed for laboratory and production applications in the rapid curing of ultraviolet sensitive adhesive resin and coating. Designed with a liquid filled light guide which channels the ultraviolet energy of the light source, creating a small, safe high-intensity spot. The system utilizes a footswitch which activates an electronically controlled shutter mechanism as well as a digital controlled electronic timer for exact time exposure. The electro-lite liquid guides provide the flexibility and durability required in a manual or automated applications. Transmitting ultraviolet and visible light from a range of 250 to 750nm. **Specs:** Input Voltage: AC 100V, 60 Hz; Lamp: high pressure 200W AC short arc mercury vapor lamp; Output: 4W/cm² (minimum, with 5mm x 1500mm lightguide). **(USA)**

No. 335PR046 Mainframe 100V, 60Hz **$3777.00**

LEASING AVAILABLE!

Light Guide

No. 335TI168 5mm x 1500mm Extended Tip **$695.00**
No. 335TI080 8mm x 1500mm **$895.00**
No. 335TI405 5mm x 750mm **$560.00**
No. 335TI081 3mm x 1000mm x 2. Dual Pole **$1267.00**

BONDWand

The BONDWand is a light source, which provides controlled ultraviolet energy with peak wavelength of 350nm. The light source is contained in a sturdy, lightweight, compact, contoured housing permitting perfect balance. Integral UV protective shields allow unobstructed viewing, with the use of a swivel table mount. The BONDWand has a built-in variable exposure timer of one, two and three minute intervals. **Specs:** Input Voltage: 120Vac, 50/60Hz: Input Power: 12W: Output Power: 10mw/cm² at 350nm minimum; Area of Exposure: 5" x 1-3/4": Timer: Solid state, 1, 2, and 3 minutes. **(USA)**

No. 335PR002 BONDWand UV - 350nm **$525.00**
No. 335PR024 BONDWand Visible - 750nm .. **$525.00**
No. 335PR765 UV Protective Shield - Solid **$42.00**
No. 335PR766 UV Protective Shield - Open **$51.00**

ESD Picks

ESD Picks are precision disposable tools, designed for use at ESD-safe workstations. Made of a low-contamination, dissipative plastic, these picks safely dissipates electrical charges and have no contaminating additives. Excellent replacements for conductive metal probes, which can scratch and damage delicate electronic components. Features a ESD-safe Bag-Within-A-Bag™ cleanroom packaging. 500/Bag. **USA**

No. 776PR768 Micro ESD Pick **$43.35/Bag**
No. 776PR769 Mini ESD Pick **$43.35/Bag**

New!

TECHNI-STAT

Polypropylene Stem Cleaners

White polypropylene stem cleaners. 100/Bag. 12" OAL. **USA**
No. 514PR100 ..... **$4.40/Bag**

Polyester Stem Cleaners

Polyester stem cleaners. 100/Bag. 6" OAL. **USA**
No. 514PR006 ..... **$3.90**

100% Cotton Stem Cleaners

100% cotton stem cleaners. 100/Bag. 6" OAL. **USA**
No. 514PR600 ..... **$3.90**

Cutting Board HDPE

Provide an excellent surface for cutting, and is easy-to-clean surface. NSF, FDA, and USDA approval material. **(USA)**

12" x 18" x 1/2"
No. 174PR405 ..... **$17.70**

18" x 24" x 1/2"
No. 174PR425 .... **$35.00**

TECHNI-STAT

Funnels

These funnels have long, narrow bore that works best for liquids. Made of autoclavable polypropylene. **(USA)**

Top O.D. 35mm; Stem Length 37mm; Stem I.D. 3mm.
No. 174PR605 20 per pack **$22.00**

Top O.D. 80mm; Stem Length 68mm; Stem I.D. 8mm.
No. 174PR665 20 per pack **$42.15**

Top O.D. 120mm; Stem Length 85mm; Stem I.D. 9mm.
No. 174PR705 10 per pack **$31.50**

"O" Sticks

Orangewood Sticks used for separating electrical components and in the manufacturing and repair of modules. Strong enough to use for wiring yet they will not mar valuable components. OAL 7". **10 Pk.**

No. 758PR002 ..... **(1-10) $4.95/Pk. (11-50) $4.20/Pk. (51-100) $3.95/Pk. (100+) $3.25/Pk.**

Parts Brushes

Use these general purpose brushes in the shop, lab or in the field. Quantity prices available.

Long Brush

Stiff natural hog bristle, width at ferrule: 1/2", brush face: 3/4", trim length: 1-3/4"; 9" OAL.
No. 296PR022 ..... **$3.95**

Machine Service Brush

Four row 1-1/2" long, soft bristle brush for general field service cleaning, drafting, etc. 9" OAL.
No. 252PR010 ..... **$6.00**

Draftsman's Duster

Medium bristle 8" brush length. 2" trim. 1 row. 14-1/2" OAL.
No. 296PR012 ..... **$7.10**

TECHNI-TOOL

Bristle Cleaning Brushes

Three 1-3/4" rows, 3/8" nylon bristles Wood handle. 6" OAL. **(USA)**
No. 296PR020 ..... **$2.90**

TECHNI-TOOL

1/2" nylon bristles. 6-5/8" OAL.
No. 296PR016 ..... **$2.35**

Tooth Brush Style

TECHNI-TOOL

Excellent cleaning brush. 21 tufts of 7/16" trim brass wire. Plywood handle. 7-1/2" OAL.
No. 152PR020 ..... **$1.60**

A. TECHNI-TOOL B.

Technical Cleaning Brushes

Heavy-duty metal handle, double-ended cleaning brush. Bristles are fine, non-static generating horse-hair. **Side A:** 1/4" long. **Side B:** 3/16". Chisel trim. 3/8" diameter handle, 4-7/8" OAL. **(USA)**
No. 754ST032 ..... **$6.50**

No. 872SO012

No. 872SO014

Acid Brushes

Handles are heavy-grade tin plate. 3/4" Horsehair bristles. **(USA) (Supplied in One Gross Boxes Only.)**

No. 872SO014 Size: 1/2" x 6" **$13.45/Gross**
No. 872SO012 Size: 3/8" x 6" **$10.70/Gross**
No. 872SO010 Size: 1/4" x 6" **$9.00/Gross**

Adjustable Scratch Brush

Stiff action when brush is retracted; soft action when fully extended. Fiberglass or Stainless Steel. **(USA)**

No. 350PR018 Fiberglass brush **$8.25**
No. 350PR022 Fiberglass refills (25/Pkg) .. **$17.45**
No. 350PR026 Stainless brush **$9.40**
No. 350PR024 Stainless Refills (25/Pkg) .. **$91.15**

Scratch Brush Kit - 4 pc

Fiberglass, brass, stainless steel, nylon brushes clean: PC boards, precious metal surfaces, moving machine parts and electrical contacts. **(USA)**
No. 350PR032 ..... **$16.60**

Angular Red Sable Brushes

Ferrules are angled 45° to reach inaccessible areas. 5" OAL. **USA**
No. 296PR026 Fine **$2.95**
No. 296PR024 Medium **$2.95**

weiler

Plate Hand Wire Scratch Brush

Stainless-steel fill, 3 x 7 bristle rows; Block size. Trim 1/2", plastic handle. 1/2" x 7-1/2" OAL. **(USA)**
No. 872MI034 ..... **$3.00 ea.**

Camel Hair Brush

Extra-soft, fine-optics dusting brush 7/16" wide with 1-1/4" long bristles, round handle. 9" OAL.
No. 872MI028 ..... **$6.80**

Parts Cleaning Brush

Diameter 1"; tapered, tynex-nylon fill material, Bristle length: 2-3/4". 8" OAL. **(USA)**
No. 872MI026 ..... **$5.05**

Chip Brush

Pure hog bristle with tinned ferrule. Economical throwaway with plastic handle. 1/2" wide, 1/4" thick, 1-1/2" x 6" bristle length. 6" OAL. **(USA)**
No. 872MI022 ..... **$.95**

Soft Oval Sash Brush

Natural hog bristle with bright, tinned ferrule; round sash handle. 1" wide, 1-5/8" thick, 2" bristle length. **(USA)**
No. 872MI020 ..... **$4.65**

TECHNI-TOOL
Phone: 1-800-832-4866 or 1-610-941-2400

These brushes are specially constructed to be used in static-sensitive areas.

Soft Bristle ESD Brush

These semi-fine bristle brushes are perfect for cleaning delicate parts.

No. 775ST303 1/2" Semi-fine **$8.25**

No. 775ST307 2" Semi-fine **$12.60**

Call for other sizes or bristle strengths.

Soft Round Brush

These soft brushes are designed for explosives, printing, paper and electronics. **(USA)**

No. 775ST200 1/8" Hard **$6.55**

Hard Round Brush

No. 775ST201 1/4" Hard **$6.80**

Metal Bristle Solder Brush

Stainless steel bristles. 2-1/2" long. **(USA)**

No. 480SO020 ..... **$10.00** *10/Pkg.*

Tabletop Cleaner

Metal-backed, nylon/carbon-fused cleaning brush with static-dissipative wooden handle. 8" OAL. **(USA)**

No. 155ST105 ..... **$19.95**

Staticbrush®

Nylon/Carbon-fused bristle for cleaning rosin-based fluxes & solder paste residues. Bristles are $10^5\Omega$/sq. and conductive, while the angled handle is static-dissipative $10^8\Omega$/sq. 5-3/4" OAL. **(USA)**

No. 155ST187 ..... **$8.95**

Tubular Cleaning Brushes

Brush: 3", diameter: 1/2", 8-5/8" OAL. **(USA)**

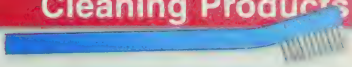
No. 296PR028 Tapered **$2.40**

No. 296PR030 Straight **$2.80**

Hard Static Brush

This curved, conductive plastic brush is designed for delicate cleaning and scrubbing of boards and more.

No. 775ST400 ..... **$18.25**



Aluminum with conductive, fine gauge, single row stainless steel bristles. 1/8" x 1-1/4" brush face. 7/16" long, .003 stainless steel bristles. 6-1/4" OAL. **(USA)**

No. 754ST041 ..... **$8.00**

Constructed to be used in cleanroom & static sensitive environments. 3/8" x 1-1/4" brush face. 7/16" long horsehair. 6-1/2" OAL. **(USA)**

No. 754ST042 ..... **$12.50**

Same as No. 754ST041 except for brush face dimensions. 3/8" x 1-1/4" brush face. 7/16" long, .003 stainless steel bristles. 6-1/2" OAL. **(USA)**

No. 754ST043 ..... **$13.00**

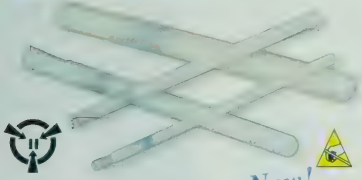
Long Handle Static Brush

These conductive plastic brushes are used for thorough component cleaning.

No. 775ST901 6" OAL. **$8.95**

No. 775ST902 7" OAL **$8.95**

TECHNI-STAT



New!

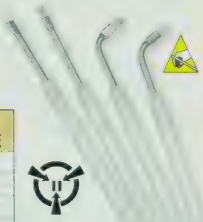
Insulative Plastic Handle Brushes

Insulative nylon brushes are an economical water resistant alternative to anti-static brushes. With a surface resistivity of 10^{12}-10^{15}, they are best used in an environment where static is not critical to the task at hand, or where the brush is submerged in liquid when in use. **(USA)**

Use: Applying liquids or fluids, as well as brushing.

TT No.	Handle Lgth.	Dia.	Bristle Trim	Bristle Dia	PRICE
415PR187	4-1/2"	3/16	3/8"	3/16"	$3.45
415PR250	4-1/2"	1/4"	1/2"	1/4"	$3.95
415PR375	4-1/2	3/8	3/4	3/8"	$4.70
415PR499	4-1/2	1/2"	1	1/2"	$6.40

Insulative Instrument Cleaning Brushes



Designed for cleaning in tight areas, the insulative instrument cleaning brushes fiber is mechanically clamped in a stainless steel tube, which is inserted into a Delrin handle. Bristle material is either nylon, or stainless steel. **(USA)**

Use: Clean tight areas including instrumentation and pinpoint cleaning.

TT No.	Bristle Material	Handle Length	Dia.	Bristle Trim Length	Bristle Width	PRICE
415PR500	Nylon	6"	1/4"	3/16"	5/16	$6.70
415PR501	Stainless Steel	6"	1/4"	3/16"	5/16	$6.70
415PR502	Stainless Steel	5-1/4"	1/4"	3/16"	5/16	$7.00
415PR503	Nylon	5-1/4"	1/4"	3/16"	5/16	$7.00

Insulative Delrin Handle Brushes

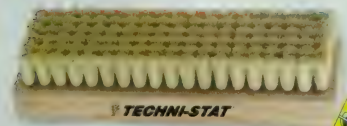
The Insulative Delrin Handle Brush is excellent for cleaning, scrubbing, wiping, and dirt removal. 11ND series has one row of fiber hand tied into the Delrin handle. The 22D has two rows of fibers to clean a slightly wider area. The 33D Series has three rows of fibers. Brushes are made of nylon, or stainless steel material. **(USA)**

Use: Cleaning, Scrubbing, wiping, and dirt removal.

TT No.	Bristle Material	Handle Length	Width	Bristle Trim Lgth	Bristle Length	Bristle Width	PRICE
415PR011	Nylon	6-1/4"	3/8	7/16"	1-3/16	1/4"	$6.70
415PR022	Nylon	6-1/4"	3/8"	7/16"	1-3/16	3/16	$7.35
415PR033	Nylon	6-1/4"	3/8	7/16"	1-3/16"	5/16	$10.55
415PR222	Stainless Steel	6-1/4"	3/8"	7/16"	1-3/16"	3/16	$8.50
415PR333	Stainless Steel	6-1/4"	3/8	7/16"	1-3/16	5/16	$11.90

TECHNI-STAT

New!



ESD Block Scrub Brushes

Clean and dust any ESD-controlled environment with this all natural hand scrub brush. This six row tuft pattern on a hardwood block is excellent when used for large printed circuit board "rework" cleanup. **Specs:** Hog bristle pattern: 6 x 19; bristle trim: 3/4"; face: 6-1/2"L x 2"W; 7-1/4" OAL. **USA**

No. 415PR426 ..... **$14.25**

ESD Scratch Brush

This stiff natural bristle brush is perfect for cleaning and board rework. Four row scratch, on a 1" wide plywood handle with a large 4 x 9 tuft pattern. 8-1/3" OAL.

No. 415PR366 Hog Bristle **$6.95**

No. 415PR360 Horse Hair Bristle **$6.95**

Small ESD Scratch Brush

Nonconductive wood handle made of plywood and horse hair bristles. **Specs:** Face: 1-3/8"L x 5/16"W. bristle pattern: 3 x 7: Bristle Trim: 7/16"; 7-3/4" OAL.

No. 415PR300 ..... **$4.25**

ESD Heavy-Duty Brush

Heavy-duty scrubber and duster with hog bristle that works well when cleaning sticky, crusty materials or viscous fluids. **Specs:** hardwood handle; bristle pattern: 2 x 6; bristle trim: 1/2"; Face: 7/8"W x 3/8"L; 5-1/2" OAL. **USA**

No. 415PR121 ..... **$5.60**

Find us on the *World Wide Web* at
http://www.techni-tool.com
or E-mail us at:
sales@techni-tool.com
TECHNI-TOOL
Fax: 1-800-854-8665

Color Coded Wash Bottles

These 16 oz. leak-proof dispensing bottles are available in three colors. One of each color per pack – blue, yellow and red. 3/Pk. **(USA)**

No. 631PR010 .... $14.95/Pk.

500mL: Red Cap Bottle
No. 186PR613 ..... $2.50
500mL: Yellow Cap Bottle
No. 186PR614 ..... $2.50

Polyethylene

Solvent Venting

Wide-neck for easy filling. Special two-way value that prevents drips of solvent! Each bottle has: Hazard symbols and information on each label. Use instructions printed on each bottle. SPI recycling codes. 250 ml (5/Pk.). *Other Labels Available!*

No. 174PR531 Acetone - (Red) **$21.20**
No. 174PR533 Isopropyl - (Blue) **$21.20**
No. 174PR535 Ethanol - (Orange) **$21.20**
No. 174PR532 Methanol - (Green) **$21.20**

Wash Bottles

These Dispensers Make Your Job Easier!

A. Squeeze Bottle

For lab or field dispensing of cleaning agents, water, etc. Linear polyethylene with nonleak top. Capacity 8 oz. Flat Bottle. 6"L x 3-1/4"W x 1-1/2"D thick. **(USA)**

No. 152PR012 ..... $2.95

B. Assembly LDPE Dispenser Bottle

This 2 oz. dispenser bottle with luer lock-style cap allows your operator to change needles without taking the cap off. **(USA)**

No. 835PR002 ..... $3.50

C. Scrub-It™ ESD Solvent Dispenser

Squeeze clean solvent and scrub it in one easy step! Transparent 2 oz. polyethylene bottle shows solvent level at all times. 1/2 inch horsehair stiff bristle brush is long lasting. Compatible with all common solvents. **(USA)**

No. 314SO024 ..... $8.90

D. Wide-Mouth LDPE Wash Bottle

Closure designed for leakproof service. Delivery tube molded into product wall. 750-ml size.

No. 780PR765 ..... $29.55/4 Pk.

E. Unbreakable Dispensers

2 oz. polyethylene solvent bottle features a special 6" long closure activated dispensing tube. **(USA)**

No. 604PR010 ..... $6.10

Solvent Dispensers

Choose These MENDA One-Touch Application Dispensing Bottles for Your Solvents, Alcohol and More...

Pure Pump Top Bottle

Protects against cross contamination, preventing fluids, once pumped, from returning to bottle.

No. 548SO512 4 oz. **$13.75**
No. 548SO516 6 oz. **$13.90**
No. 548SO518 8 oz. **$17.50**

Standard Pump Top Bottle

No. 548SO016 4 oz. **$11.50**
No. 548SO018 6 oz. **$11.75**
No. 548SO020 8 oz. **$11.95**

Field Service Lock Top Bottle

The locked-closed feature of this top prevents spilling in your tool kit when you travel.

No. 548SO024 4 oz. **$15.85**
No. 548SO026 6 oz.. ..... **$15.95**
No. 548SO718 8 oz. **$16.90**

Send for Free Catalog

MENDA One-Touch HDPE Fluid Dispensers

Permanently conductive, with carbon black HDPE additive, this bottle is designed for use new extremely ESD components are use. **Specs:** Resistivity 1 x 10^2 to 1 x 10^6 Ω/sq.; 6 oz. bottle; One touch lid. *Meets Mil Spec 81705B.* **(USA)**

A. No. 548PR056 Black Conductive **$13.65**

Designed for ESD sensitive environments, this bottle ESD property shelf life is 2 years or more. Specs: Resistivity is 1 x 10^6 to 1 x 10^{11} Ω/sq.; Decay: ≤ 2.00 sec.; 6 oz. bottle. *Meets US MIL-STD-81705B.* **(USA)**

B. No. 548PR366 One Touch Lid **$13.15**
No. 548PR566 Purity Lid **$15.15**

Add-On ESD Sleeves

No. 548SO302 4 oz. Sleeve **$3.75**
No. 548SO308 8 oz. Sleeve **$4.20**

548PR056

548PR366

Quik Mist HDPE Dispenser Bottle

New!

This reusable hand sprayer has trigger-type operation to provide fine mist with large pattern. Trigger assembly is chemically resistant polypropylene with plastic strainer. Easily cleaned valve and intake. Excellent for spraying all types of thin liquids. **(USA)**

No. 174PR144 16oz. Bottle **$5.00**
No. 174PR154 32oz. Bottle **$6.15**

A. Amber Glass Dispenser Bottle

Choose this 100% pure glass container to hold solvents incompatible with HDPE, plastic or steel. The dispenser features a specially designed 100% stainless steel one-touch pump top to dispense the liquid you need. 4 oz. **(USA)**

No. 548SO324 ..... $12.15

B. Steel Solvent Container

Made of durable plated-steel, choose this container to hold solvent incompatible with HDPE bottles. The container is topped by a specially designed 100% stainless steel one-touch pump to dispense the liquid you need. 4 oz. **(USA)**

No. 548SO022 ..... $14.15

C. MENDA Pump Liquid Dispenser

8 oz., spillproof, high-density, polyethylene dispenser with plastic top. **(USA)**

No. 548SO014 Alcohol Pump **$5.25**
No. 548SO010 5 qt. Touch Pump.. **$3.95**

D. Twist Lock Pump Bottle

Ideal for a one-touch application of antiseptics, removers, acetone alcohol, alcohol-based and other solvents. Spill-proof pump.

No. 548SO214 4 oz. **$4.20**
No. 548SO218 8 oz *(Not shown)* **$5.25**

LDPE Dispensing Bottle

A low density bottle with polyethylene dropper closure with captive cap. Supplied capped in shrink-wrapped packs. 10/pk. **(USA)**

30mL Capacity
No. 174PR030 ..... **$7.90**
60mL Capacity
No. 174PR060 ..... **$8.40**
150mL Capacity
No. 174PR125 ..... **$9.00**
250mL Capacity
No. 174PR250 ..... **$8.95**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

COVENTRY Swabs

Chemtronics

Diamond™ Swabs

Designed for your ultra-critical applications where contamination is the utmost concern; this swab has a wrapped tubular knit head. **(USA)**

TT No.	Swab OAL	Head OAL	Head Size	Handle	Head	Pack	PRICE
237PR353	2.8	0.78	0.16	ESD	KP	100	$41.20
237PR1353	2.8	0.78	0.16	GFN	KP	100	$32.20

Static Control Swabs

Engineered to eliminate damage form static electricity, the handles of these swabs will dissipate 99% of a 5,000V charge in 0.01 seconds for conductive and in less than 0.5 seconds for ESD. The handles are solvent and acetone resistant, leaving behind no residue.

TT No.	Swab OAL	Head OAL	Head Size	Handle	Head	Pack	PRICE
237PR121	2.8"	0.40"	0.25"	GFN	KP	25	$9.75
237PR360	5.8"	0.75"	0.19"	ESD	KP	500	$106.50
237PR415	2.8"	0.40"	0.13"	ESD	PP	500	$65.55
237PR070	3.2"	0.39"	0.11"	ESD	PP	500	$65.55
237PR1410	6.2"	0.47"	0.27"	ESD	KP	25	$12.10

Sealed Polyester Swabs

An exceptionally clean swab featuring either knit or nonwoven fabric heads and thermoformed are welded to the swab head. These swabs are acid and solvent resistant. Sealed edges build in high strength with no loose fibers or particulates. Class M1 processing gives you the lowest ionic, non-volatile residue and particles contaminants. **(USA)**

TT No.	Swab OAL	Head OAL	Head Size	Handle	Head	Pack	PRICE
237PR606	5.8	0.75	0.19"	PP	KP	500	$90.25
237PR384	2.7"	0.44"	0.09"	PP	KP	500	$50.60

Wrapped Foam Swabs

These durable wrapped foam swabs designed for precise applications, that delivers superior abrasion resistance for removal of tough contaminants. Wicking action pulls solvent from surfaces and provides good particle entrapment. **(USA)**

TT No.	Swab OAL	Head OAL	Head Size	Handle	Head	Pack	PRICE
237PR205	2.6	1.06	0.12	W	PP	500	$68.85
237PR080	2.6	0.89	0.11	W	PP	500	$73.20
237PR210	2.8	1.08	0.14	N	PP	500	$79.50
237PR090	2.8	0.93	0.14	GFN	PP	500	$73.20

General Purpose Cleaning Swabs

These cost-effective swabs are designed for general purpose applications with heads made of 100 ppi reticulated medical grad polyurethane foam or medical grade cotton to provide excellent particle entrapment. The open cell polyurethane foam gives the best solvent holding ability of any style of swab; cotton for tough cleaning jobs or are free of adhesives or binders that could contaminate your processes.

TT No.	Swab OAL	Head OAL	Head Size	Handle	Head	Pack	PRICE
237PR410	2.8"	0.40"	0.13"	PP	PU	500	$32.20
237PR440	3.2"	0.39"	0.11"	PP	PU	500	$34.25
237AE238	6"	Dual 7/8"	Dual 3/8"	PP	Sealed PU	50	$26.00
237PR030	4-1/8"	17/32"	5/32"	N/P	F	50	$20.35
237PR100	4-1/8"	17/32"	5/32"	N/P	F	1000	$279.35
237PR502	6"	0.076	Taper	PP	PPF	50	$23.05
292PR010	3"	5/8"	3/16"	W	C	1000	$8.00
292PR016	6"	5/8"	3/16"	W	C	1000	$8.40
237PR055	3-1/4"	7/8"	1/8"	ABS	CC	50	$26.50

Key: C = Medical Grade Cotton; CC = Chamois Cloth; PU = Polyurethane. F = 100 PPI Open Cell Foam; F/C = 100 PPI Open Cell Foam/Over Cotton; N/P = Nylon/Polypropylene; PP = Polypropylene; PPF = Porous Polyvinyldene Fluoride. W = Wood; GFN = Glass Filled Nylon; Poly = Polyester; KP = Knit Polyester. P/C = Polyester Foam; SC = Synthetic Chamois

TECHNI-TOOL Industrial Tipped Applicators

TT No.	Swab OAL	Head OAL	Head Size	Handle	Head	Pack	Price
292PR807	6"	1/12"	1/2"	W	C	100	$1.70
292PR106	6"	1"	3/8"	W	F/C	50	$8.70
237AE228	6"	13/16"	3/8"	W	F/C	50	$12.55
237PR200	6"	Dual 5/8"	Dual 3/16"	W	C	100	$2.80
237PR5000	6"	5/8"	3/16"	W	Hot Melt	100	$22.65
292PR821	6"	5/8"	1/32"	W	C	100	$25.55
(Dual)		5/8"	3/16"				
237PR3160	6"	11/16"	3/16"	W	F	50	$63.35
292PR833	3"	5/8"	5/32"	W	C	100	$2.50
292PR1616	6"	7/8"	1/4"	PP	F	50	$11.70
237PR060	5"	1-1/8"	29/32"	PP	F	50	$15.30
237PR2050	5"	15/16"	9/16"	PP	F	50	$15.90
237PR3050	6"	13/16"	3/16"	PP	F	50	$14.00
292PR1802	2"	1/2"	5/32"	PP	F	50	$12.60
292PR1807	6"	7/8"	5/8"	PP	F	50	$10.00
237PR150	3"	1/2"	5/32"	PP	F	50	$12.55
292PR1676	6"	9/16"	3/16"	PP	F	50	$13.15

Chemical Resistant Tipped Applicator

TT No.	Swab OAL	Head OAL	Head Size	Handle	Head	Pack	Price
237PR170	6"	15/16	3/16	W	F/C	50	$63.35

TECHNI-STAT Anti-Static Tipped Applicators

TT No.	Swab OAL	Head OAL	Head Size	Handle	Head	Pack	Price
292PR186	6	11/16"	3/16	W	F	50	$12.70
292PR180	6	13/16	3/8	W	F	50	$15.00

TECHNI-STAT Cleanroom PurSwab® Polyester Tipped Applicator

TT No.	Swab OAL	Head OAL	Head Size	Handle	Head	Pack	Price
292PR3600	6"	1-1/4"	1/2"	PP	P	50	$18.90
292PR3605	6"	1-3/4"	1/4"	PP	P	100	$16.25
292PR3610	3"	5/8"	1/4"	PP	P	100	$37.00
292PR3615	6"	1/2"	1/8"	PP	P	100	$17.20
292PR3620	3"	3/8"	1/16"	Acetal	P	100	$19.35
237PR540	3"	1/2"	1/8"	Acetal	P	100	$54.95

PurSwab Popule® Self-Saturating Swab

This swab combines solvent and applicator in one convenient unit. Simply squeeze the handle to break the patented seal and allow liquid to flow to the foam head. Comes filled with 91% isopropyl alcohol and 9% deionized water. Tip 9/16 Dia. x 1-1/16"L. 4-1/2" OAL

No. 292PR4545 ..... $14.00

Mixing Stick

TECHNI-TOOL

This stick is ideal for mixing epoxies, adhesives and more. 500/Pk

No. 292PR711 5-1/2" x 5/8" $14.00

Wondermask® *Temporary solder masks are designed to be either water soluble or peelable formulations, and can be used in aqueous or no-clean applications.*

Wondermask® WSOL

New!

Wondermask® WSOL is a non-foaming, 100% water soluble solder mask formulated specifically for wave soldering applications utilizing closed loop and in-line aqueous cleaning systems. Features: quick drying; rinses quickly; will not clog filters; safe on Ion Exchange Beds. **(USA)**

8 oz. Squeeze Bottle
No. 754CH048 .... **$10.70**
1 Gallon Container
No. 754CH049 .... **$92.30**
5 Gallon Container
No. 754CH047 .... **$440.75**

Wondermask® P

A synthetic latex mask designed for no-clean and aqueous operations requiring the mask to remain on the board throughout the cleaning process. Unlike natural latex mask, it contains no offensive, ammonia smell and has a natural dry indicator of changing from opaque pink to clear red when it is ready to be peeled.

8 oz. squeeze bottle.
No. 754CH118 ..... **$7.95**
1 Gallon Container
No. 754CH213 ..... **$68.15**

Wondermask® W

A water soluble temporary mask is formulated with non-corrosive materials. Quick drying and washes easily leaving no residue. Containing attapulgite clay, this mask will withstand multiple passes over the solder wave.

8 oz. squeeze bottle
No. 754CH058 ..... **$8.10**
1 Gallon Container
No. 754CH205 ..... **$62.00**

Wondermask®PL Latex

This natural latex mask has quick drying and excellent peel strength.

8 oz. squeeze bottle.
No. 754CH188 ..... **$6.90**
1 Gallon Container
No. 754CH218 ..... **$60.30**

Dispensing Systems

Economy Shot Meter

KANNETICS

The Economy Shot Meter is a benchtop unit with easy reading dials and adjustment of air pressure and vacuum. Features an adjustable four-position push button timer switch with an electrical foot pedal actuation (optional finger switch available). Has a slide switch for easy change from 110 - 220 volts, 0-100 PSI regulator and gauge with locking ring, and time duration from .01 to 99.99 seconds. **Specs**: Size: 6.25"W x 7.75"D x 5"H; air input/output: 0 - 100 psi; vacuum: 0 - 18" of mercury; power: 110-230VAC switchable 50/60 Hz; Internal Voltage: 24V transformer; repeat accuracy: .5ms; recycle time: 12ms; setting accuracy: ±2%. (Requires shop air.)**(USA)**

Economy Shot Meter
No. 272ME810 ..... **$655.00**

Finger Switch
This plug in module replaces foot pedal. Works with the Economy Shot Meter, and Deluxe Shot Meter.
No. 272PR811 ..... **$36.40**

Solder Mask System

The solder mask Systems was designed for water soluble and peelable solder mask and any one-part flowable material. Its lightweight finger-actuated wand and pinch tube eliminates the need for cleanup and eliminates the "squeeze bottle application" method. **(USA)**

System 100, 1 gal
No. 272SO601 ..... **$971.00**
System 300, 3 gal
No. 272SO604 . .. **$1525.00**
System 500, 5 gal.
No. 272SO605 .... **$1120.00**

WATCH FOR OUR NEW E-COMMERCE INTERNET SITE ...COMING JANUARY 2001!

Deluxe Shot Meter

The Deluxe Shot Meter has digital timer control for reproducibility, and an easy reading of dials and adjustments of air pressure and vacuum. Includes an adjustable four position push button timer switch and vacuum feature to prevent dripping; an electrical foot pedal actuation for excellent; and (2) 0-100 PSI regulators with locking ring. Equipped with an accessory port for a vacuum pickup wand or for pressurizing anexternal cartridge or tank. **Specs**: Power: 110-230 VAC (switchable) 50/60 Hz; Internal Voltage: 24V transformer; Timer: Type: CMOS 8 bit microprocessor; Range: .01 to 99.99; Adjustments: four position, push-button switch; Repeat Accuracy: .5ms; Recycle Time: 12ms; Setting Accuracy: ±2%. (Requires shop air.) **(USA)**

No. 272ME824 ..... **$803.00**

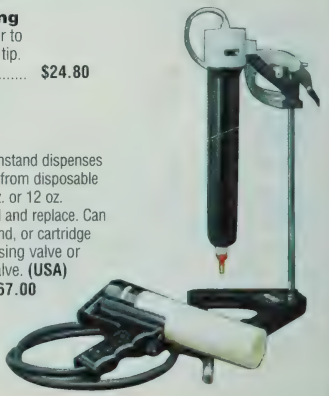
Vacuum Pickup Wand
This finger control easy to operate Vacuum Pickup Wand is small, lightweight and portable (wherever an air source is available). Comies in three sizes of conductive suction cups, and built-in Venturi. **(USA)**
No. 272PR575 ..... **$35.30**

Vacuum Probe
Button-Type with 6 ft. Flexible Tubing
Continuous vacuum flow. Depress button to stop vacuum flow.
No. 122PR066 ..... **$69.95**

Probe-Vacuum By-Pass with 6 ft. Flexible Tubing
By-pass hole is covered with finger to allow vacuum flow through probe tip.
No. 122PR064 4-3/4" OAL **$24.80**

Production Gunstand

This aluminum head production gunstand dispenses medium to high viscosity materials from disposable plastic cartridge with 2-1/2 oz., 6 oz. or 12 oz. capacities. Cartridges are easy to fill and replace. Can have needle or nozzle at cartridge end, or cartridge can be attached directly to a dispensing valve or with a material hose line to the valve. **(USA)**
No. 272PR807..... **$167.00**



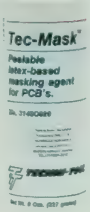
TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Solder Masking Agents

Protect PC boards, plated through-holes, contacts, pins, posts, terminal and gold fingers during wave soldering. Provide short-term, high-temperature protection from molten solder to 515°F/268°C.

Tec-Mask™

Withstands heat up to 600°F in soldering operations; can cover holes up to 1/4" diameter. 10 Mil coating dries in 2 to 3 hours at ambient temperature and humidity and peels off clean. Achieves mechanical in 360 seconds. Safe— non-toxic, non-flammable, non-conductive. Unaffected by acids, alkalines or alcohols.
8 oz. bottle
No. 314SO020 ..... **$5.99**



Chemask®

The fast curing, peelable temporary solder mask. Easy-to-use – just peel off! Dried Chemask®. Dries tack-free in 30 minutes. 8 oz. liquid squeeze bottle
No. 237CH008 ..... **$8.85**
One gallon liquid
No. 237CH003 .... **$84.65**

Chemask® HV

The high viscosity solder mask.
8 oz. liquid squeeze bottle
No. 237CH380.....**$11.15**

Chemtronics

Chemask® DA

The ammonia free solder mask.
8 oz. liquid squeeze bottle
No. 237CH018..... **$11.05**

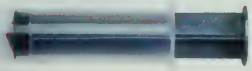
Chemask® W

The water soluble temporary solder mask.
8 oz. liquid squeeze bottle
No. 237CH080 ..... **$8.15**

Chemask® WF

The water filterable temporary solder mask.
8 oz. liquid squeeze bottle
No. 237CH023 ..... **$11.55**

Dispensing Accessories



Stopper Barrel Plunger

Manual Syringe Assemblies

Includes syringe barrel, stopper, manual plunger. Syringe barrels are polypropylene; stoppers are polyethylene. Luer Tip accepts dispensing needles. 10/Pk.

Regular Syringe (Non-Luer Lock)

No. 756PR148 3cc Capacity **$6.00**
No. 756PR154 20cc Capacity **$10.75**
No. 756PR158 60cc Capacity **$22.00**

Luer Lock Tip Syringe

No. 756PR150 6cc Capacity **$6.00**
No. 756PR152 10cc Capacity..... **$7.75**
No. 756PR156 35cc Capacity..... **$16.50**

Tip Cap Air Stopper Barrel Plug

Air-Powered Syringe Assemblies

Includes syringe barrel, stopper, tip cap and plug. Syringe barrels and tip caps are polypropylene; stoppers and plugs are polyethylene.

No. 606AC620 6cc Capacity..... **$10.40** 20/Pk.
No. 606AC105 10cc Capacity ..... **$9.75** 15/Pk.
No. 606AC351 35cc Capacity ..... **$10.40** 10/Pk.
SPECIAL: As above, barrel and air stopper only
No. 756PR130 10cc Capacity ..... **$2.00** 10/Pk.

Potting Syringes, Applicators & Needles

High-density, linear polyethylene applicators for hand operation only. Will resist highly reactive compounds & solvents. (369PR014 & 369PR016 supplied with stainless steel, disposable needles.) 10/Pk.

No. 369PR010 6cc Capacity
(1-10) **$5.30** (11-49) **$4.80** (50-250) **$4.25**
No. 369PR018 12cc Capacity
(1-10) **$7.00** (11-49) **$6.30** (50-250) **$5.60**
No. 369PR022 30cc Capacity
(1-10) **$8.35** (11-49) **$7.55** (50-250) **$6.70**
No. 756PR142 30cc Capacity. Taper tip.
(1-9) **$6.30** (10-49) **$5.70** (50-99) **$5.00**
No. 369PR016 6cc Capacity (1-1/2" x 0.060" needle)
(1-10) **$21.25** (11-49) **$19.15** (50-250) **$17.00**
No. 369PR014 6cc Capacity (1-1/2" x 0.030" needle)
(1-10) **$19.55** (11-49) **$17.60** (50-250) **$15.65**
No. 369PR020 12cc Capacity. Includes S.S. tip.
(1-10) **$15.25** (11-49) **$13.75** (50-250) **$12.20**
No. 369PR024 30cc Capacity. Includes S.S. tip.
(1-10) **$16.25** (11-49) **$14.65** ((50-250) **$13.00**

P Series Flexi-Dispensing Tips

These flexible polypropylene tubing tips are molded into high-density polypropylene Luer Lock hubs. The flexible tube is color coded to correspond with gauge size. The polypropylene tip prevents surface scratching and provides a flexible tip for hard to reach dispensing applications. Uses include general purpose material applications including cyanoacrylate. 50/Pk.

TT No.	Hub	Gauge	I.D.	Length	PRICE
606TI155	Grey	15	0.054"	1-1/2"	$40.25
606TI650	Brown	16	0.047"	1-1/2"	$40.25
606TI185	Pink	18	0.033"	1-1/2"	$42.00
606TI205	Yellow	20	0.024"	1-1/2"	$42.00
606TI225	Black	22	0.012"	1-1/2"	$54.00
606TI255	Red	25	0.010"	1-1/2"	$68.00

Dispensing Tips Stainless Steel

These stainless steel blunt tips are the finest general purpose dispensing tips available. Cut tubing is epoxy bonded into polyethylene hubs. 50/Pk.

TT No.	Hub	Gauge	I.D.	OAL	PRICE
606TI186	Green	18	0.033"	1/2"	$7.20
606TI187	Green	18	0.033"	1"	$7.20
606TI188	Black	19	0.027"	1/2"	$7.20
606TI190	Pink	20	0.024"	1/2"	$7.20
606TI191	Pink	20	0.024"	1"	$7.20
606TI192	Purple	21	0.020"	1/2"	$7.20
606TI193	Blue	22	0.016"	1/2"	$7.20
606TI194	Orange	23	0.013"	1/2"	$7.20
606TI195	Red	25	0.010"	1/2"	$7.20
606TI196	Beige	26	0.009"	1/2"	$7.20
606TI197*	Clear	27	0.008"	1/4	$7.20
606TI198*	Clear	27	0.008	1/2"	$7.20
606TI199*	Lavender	30	0.006	1/4"	$7.20
606TI207*	Lavender	30	0.006"	1/2"	$7.40

Bulk Pak Dispensing Tips

TT No.	Hub	Gauge	I.D.	OAL	Price 100	500	1000
756PR176	Silver	12	.063	1/2	$.60	$.55	$.50
756PR184	Silver	15	.054	1"	$.50	$.45	$.40
756PR186	Silver	15	.054	1/2"	$.50	$.48	$.45
756PR188	Pink	18	.033	1"	$.50	$.45	$.40
756PR192	Pink	18	.033	1/2"	$.50	$.45	$.40
756PR194	Brown	19	.027	1"	$.50	$.45	$.40
756PR198	Yellow	20	.023	1"	$.50	$.45	$.40
756PR202	Green	21	.020	1	$.50	$.45	$.40
756PR210	Black	22	.016	1/2"	$.50	$.45	$.40
756PR212	Lt. Blue	23	.013	1"	$.50	$.48	$.45
756PR216	Blue	25	.010	1/2	$.50	$.45	$.40
756PR220	Beige	26	.009	1/2	$.50	$.45	$.40
756PR222	Grey	27	.008	5/16	$.50	$.45	$.40
756PR224	Lavender	30	.006	5/16	$.50	$.45	$.40

TT Series Tapered Dispensing Tips

These tips are molded in high-density polyethylene to include a Luer Lock hub and a taper tip. Color coding indicates tip orifice inside diameter that corresponds to gauge size. Easily cut by user when shorter tip is required. Ideal for solder paste dispensing. 50/Pk.

TT No.	Hub	Gauge	I.D.	Length	PRICE
606TI170	Tan	14	0.063"	1-1/4"	$11.75
606TI171	Grey	16	0.047"	1-1/4"	$11.75
606TI172	Green	18	0.033"	1-1/4"	$11.75
606TI173	Pink	20	0.024"	1-1/4"	$11.75
606TI174	Blue	22	0.016"	1-1/4"	$11.75

Bulk Quantities and pricing available on tips and syringe accessories.

Hot Melt Gun

This hand-held dispenser is specifically designed for use with 5/8' dia. PROFORM™ Hot Melt Adhesives. Trigger mechanism conveniently controls adhesive dispensing.
No. 512PR980 ..... **$291.50**

LOCTITE

Proform™ Hot Melt Adhesives

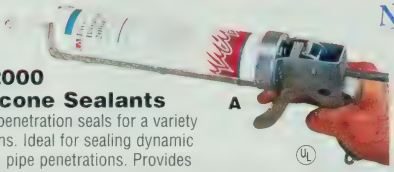
Proform™ Hot Melts are ideal for applications that require high speed manufacturing, bonding versatility, very large gap filling, fast green strength, and minimal shrinkage. Proform™ products are solvent-free, environmentally friendly materials with no harmful VOCs.

3640
Polyamide Adhesive
This adhesive is best suited for high temperature applications. UL 94 V-0 approved. Has a fast open time of 20-40 seconds, tensile strength of 1,100, PSI Temperature Resistance of 330°F and Hardness (Shore A) of 94. 11 lb. Box sticks - Dark Amber.
No. 512CH313 ..... **$229.55**

3641
Polyamide Adhesive
This adhesive is specially formulated for difficult substrates. UL 94 V-0 approved. Has an open time of 60-80 seconds, tensile strength of 320 PSI, temperature resistance of 230°F and Hardness (Shore A) of 73. 11 lb. Box sticks - Light Amber.
No. 512CH113 ..... **$231.40**

3642
Polyamide Adhesive
A low viscosity potting adhesive for severe environments. UL 94 V-0 approved. Has an open time of 60- 80 seconds, tensile strength of 460 PSI, temperature resistance of 330°F and Hardness (Shore A) of 86. 11 lb. Box sticks - Amber.
No. 512CH314 ..... **$238.90**

Sealants, Lubricants & Adhesives



3M™ Fire Barrier 2000 and 2003 Silicone Sealants

Ready-to-use silicone penetration seals for a variety of fire-rated penetrations. Ideal for sealing dynamic construction joints and pipe penetrations. Provides up to a 4-hour fire rating. Maximum pipe size of 24". Tested to ASTM 1399.

2000 Nonslump
No. 105CH2000 (2000-CART) 10.3 oz. Cartridge **$18.95**
2003 Self-Leveling
No. 105CH2003 (2003-10.3oz) 10.3 oz. Cartridge **$19.30**
3MTM Fire Barrier 2000+ Silicone Sealant
A. No. 105CH2001 (2000+) **$18.95**

New!

3M™ Fire Barrier CP 25WB+ Caulk

Premium, intumescent latex-based caulk for outstanding fire performance. Has a water base for easy cleanup. Intumescent expands when heated to choke and seal around items consumed by fire. 25 oz. cartridge.
No. 105CH025 (CP-25WB+ Cart) Cartridge **$15.10**

3M™ Fire Barrier Moldable Putty +

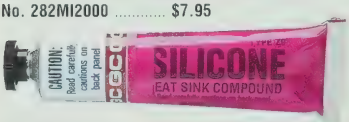
3M™ fire barrier moldable putty + is designed for construction gaps, cable, insulated pipe, electrical conduit and metal pipe. Provides up to a 4-hour fire rating.

Moldable Putty Pads (Not shown)
No. 105CH2411 (MPP-1) 1/8" x 4" x 8" **$5.35**
No. 105CH2958 (MPP-4S) 1/8" x 7" x 7" **$5.70**
Moldable Putty Stix
B. No. 105CH2412 (MPS-2+) 1.5" x 12" **$18.95**

Sealants, Lubricants & Adhesives

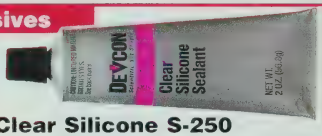
HTL-2000™ Oiler

HTL-2000™, patented PTFE (Teflon®/Fluon®) dispersion, is 30% more slippery than Teflon®! This precision PEN-OILER applicator provides pin-point accuracy. Use on disk drives, print heads, robot arms, servos, strike solenoids and more.
No. 282MI2000 ..... **$7.95**



Z9 Silicone

High-heat-conductive metallic oxides, suspended in silicone, dissipates "hot spots." Will not dry out or harden. 1 oz. tube.
No. 388AE044 ..... **$6.90**



Clear Silicone S-250

100% silicone rubber. Permanently flexible. Will not shrink, crumble, crack or dry out. 2 oz tube.
No. 288AE024 ..... **$3.25**

Goop E-6000 Adhesive

E-6000 is possibly the strongest, toughest adhesive and sealant available for industrial applications. E-6000 has a very high tensile strength, remains extremely flexible (even when used underwater) and is non-corrosive. May be used in contact with most chemical solutions. 3.7 fl oz.
No. 326CH600 ..... **$4.00**

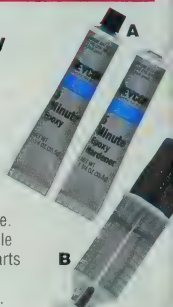
For Super-Fast Repairs!

"5-Minute" Epoxy

Sets in five minutes. Bonds most materials, including cement and metal. Two 1-1/4 oz. tubes.
A. No. 288AE016 ..... **$6.15**

"5-Minute" Two Part Epoxy

Two part all purpose adhesive. Break off the top of the double nozzle and push out equal parts of epoxy and hardener– automatically. Net Vol. 25mL.
B. No. 288AE018 ..... **$3.55**



Insulating Varnish!

Red GLPT

Alkyd-Base Compound. 2 oz. bottle.
No. 388AE050 ..... **$7.00**

Gold Base, Precious Metal Cleaners/Lubricants

These products are specially formulated to improve, clean & lubricate contacts.

CAIG LABORATORIES, INC.

ProGold

Specially formulated to improve conductivity, lubricate and protect gold, base metals and other precious metal surfaces. It deoxidizes and cleans surface contamination. Provides up to 10 years protection on gold, silver, rhodium, copper, nickel, and other precious metals.

ProGold

G100S Spray
No solvents, non-flammable. 100% liquid concentrate. 2.0 oz. (57g.) metered valve spray.
A. No. 218AE100 ..... **$24.95**

ProGold Wipes
Non-toxic, non-flammable. 100% liquid concentrate wipes. 50/pack.
B. No. 218CH050 ..... **$18.95**

Needle Dispenser
Non-toxic, non-flammable. 100% liquid concentrate. 25ml.
C. No. 218OZ100 ..... **$39.95**

DeoxIT™

This fast-acting, deoxidizing solution cleans, preserves, lubricates and improves conductivity on metal connectors, contacts and other metal surfaces.

D5 Spray
Spray provides a light (5%) coating of DeoxIT liquid. Adjustable valve. No CFC's/HCFC's. 5 oz.
D. No. 218AE005 ..... **$9.95**

Needle Dispenser
Non-toxic, non-flammable. 100% liquid concentrate. 25 ml.
E. No. 218CH102 ..... **$17.95**
59ml Refill Bottle
No. 218CH1002 ..... **$21.95**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Mantis Optical Inspection System

The Mantis combines the viewing ease of bench magnifiers with the high resolution and magnification capabilities of eyepiece microscopes. Bench magnifiers are easy to use but have magnification and resolution limitations, while eyepiece microscopes are difficult to use. The Mantis large viewing area promotes maximum comfort while producing sharp, three-dimensional stereo images with increased quality and throughput. Operators will no longer suffer from fatigue, eye, neck or back strain commonly associated with eyepiece technologies. Safety or corrective vision glasses may be worn comfortably during use. Individual requirements can be optimized by selecting magnification objectives (from 2x - 10x) most appropriate for the task. A twin turret accommodates two objectives which can be selected or changed with ease. Also featured are adjustable dual 20 watt halogen bulbs. Mounting options include a flexible boom arm or bench stand. Long working distances make the Mantis ideal for assembly, inspection or rework applications. The Mantis conforms to *MIL-SPEC 2000*. Accessories include a dust cover and protective lens covers.

A. No. 848IN001 (M001) Mantis Head Assembly **$1140.00**

Order Component Parts Separately

C. Universal Mounting Stand
No. 848AC003 (M003) **$431.25**

B. Bench Mounting Stand
No. 848AC002 ..... **$815.60**

6x Protective Lens Cap
No. 848AC016 ..... **$29.90**

2x Magnification Lens
No. 848IN222 (M222) **$107.85**

4x Magnification Lens
No. 848IN444 (M444) **$131.25**

6x Magnification Lens
No. 848IN004 (M004) **$192.20**

6x Super Long Magnification Lens
No. 848AC013 ..... **$684.40**

8x Magnification Lens
No. 848IN008 (M008) **$215.65**

Protective Lens Cap: 2x, 4x, 6x, 8x
No. 848AC010 (M010) **$56.25**

Protective Lens Cap: 10x
No. 848AC011 ..... **$56.25**

10x Magnification Lens
No. 848IN009 (M009) **$389.10**

Diffuser Light
No. 848AC015 ..... **$6.90**

20W Bulb, Illuminator
No. 848IN018 ..... **$17.00**

10W - FX Substage Illuminator Bulb
No. 848IN109 ..... **$16.00**

Dust Cover for Mantis
No. 848AC007 ..... **$32.80**

Carrying Case for Mantis
No. 758CA650 ..... **$275.00**

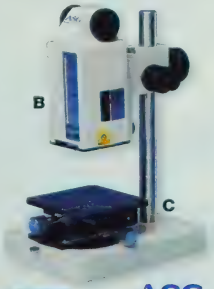
Mantis® Ultra Violet White Light

Vision Engineering now offers the Mantis® technology with Ultra Violet illumination and magnification for coating inspection. View conformal coating of PCB's and components, to reduce the changes of critical failure in difficult or hostile environments. As the complexity of boards increases, so the need to ensure 100% coating coverage becomes more critical. Most conformal coatings, whether carried out in house or sub contracted, contain on Ultra Violet trace to enable inspection of the coating, which fluoresces under the UV light source. Has an alternate white light for conventional and magnified inspection can be instantly selected with a footswitch for component placement, solder joint quality. **Features:** 2-High frequency concentric lamps - UVA/White; Long lamp life (7000+ hours); Typical performance (at x4 magnification) UV intensity 1300+µw/cm², Wavelength 365 nanometers; Independent central switch for UV lamp; Footswitch control for white light; Power supply: 100V-120V.

D. No. 848IN012 Pod Only **$1865.65**

Video Microscope Inspection System

The IS-3N is ideal for quick monitoring of small objects. Images can be viewed on a PC or viewed on video. Focal distance is variable, from 50 to 450x, using a control knob. (Magnification is based on image projected on a 14" TV monitor.) A CCD camera, lens and light source are built into the unit. **Specifications:** CCD Camera: 1/4"; Resolution: 542H/496L; Video Format: NTSC; Illumination: Two Settings; Three filters allow maximum contrast under various conditions; Magnification: 1x to 450x, Infinity if applied (on a 14" monitor); Input Voltage: AC 100V~240V, 50/60Hz; Dimensions: H146~216 x W65 x D65.2mm; Weight: approx. 14 oz.



LEASING AVAILABLE!

ASG

Magnification Data				
Magnification	W.D. (mm)	W.D. (mm)	Depth of Focus	View Field (mm)
50	20	51	1500	5.2 x 4
100	11	33	450	2.6 x 2
200	5.5	23	200	1.3 x 1
300	3.5		100	0.87 x 0.67
400	2.5		60	0.65 x 0.5
450	2.0		50	0.55 x 0.4
Part No.	B. 106IN300	B. 106IN304		
Model No.	IS-3N	IS-3L		
PRICE	$1735.00	$1735.00		

Scope Stand DSX C. No. 106AC306 ..... $1265.80

Solder Joint Inspection System

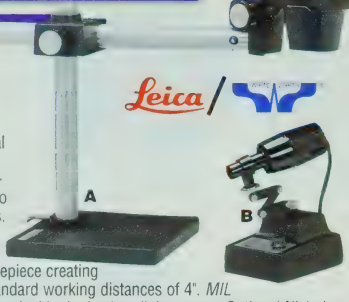
The IS-1000 lets you easily inspect solder balls underneath a component. Images are captured on video for a fraction of the cost of x-ray inspection. Special non-glare light gathers the image for viewing. Helps identify lifted leads, cracks, solder balls, bridging, cold soldering and misalignment for BGA, CSP, QFP and LGA solder joints. Includes two prisms for up 140x magnification (on a 14" monitor). **Specifications:** 1/4" CCD Camera with NTSC Video Formant; Prism 2mm T x 12mm W provides magnification of 140X on a 14" Monitor; Resolution: 542 H/ 496 V; Illumination: Hi-Brightness LED; Probe Size: 159mm L x 36.5mm D; AC: 100V~240V, 50/60Hz.

No.106IN302 ..... **$3950.00**

LEASING AVAILABLE!

Leica

Stereo-Zoom 4 Stereoscope For Inspection And Assembly



Unmatched in 3-dimensional viewing. The Leica Stereo Zoom 4 pod gives you magnification range from 2.1x to 180x with additional options. Your scope unit comes complete with O.C. White stand, Leica pod and 10x eyepiece creating 7x to 30x. light optional. Standard working distances of 4". *MIL STD 2000 approved* when used with shadowless light source. Optional Nicholas illuminator for variable spot illumination available. **The Unit Includes: E Arm** - The O.C. White Arm can be inclined through 180° & pivoted through 360°. It contains its own focusing slide block. **S Stand** - Choose where a wide horizontal and vertical viewing latitude is required; S-Stand is exceptionally stable–no counter-balance needed; unique safety clamp permits 360° rotation of the horizontal shaft around the vertical shaft. The slotted horizontal shaft prevents accidental rotation.

A. Leica Stereo-Zoom 4 on O.C. White E-arm
Provides excellent resolution, 3.5-30x with bench base and light included. *Meets MIL-STD.*
No. 886IN173 ..... **$1995.00**

B. Illuminator *(Optional)*
No. 886IN028 ..... **$215.30**

LEASING AVAILABLE!

Micro-Lite

Shadowless Ring Light

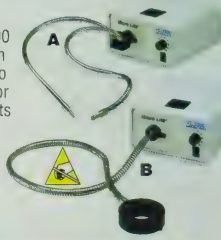
Features: Instant start; dimmable intensity; electronic ballast; no fluorescent flickering; no ballast humming; increased lumen output; energy efficient lower wattage; cooler bulbs; fits objective lenses up to 2.35 inches O.D.; W/#4 Adapter for B & L scopes; *MIL STD 2000A* Certified; other adapters available; full spectrum white bulbs standard; grounded cord set textured thermal shade; 115 Volt Std.

No. 886LI1000 ..... **$219.85**

Replacement Bulbs

No. 886LI101	Standard Replacement Bulb	**$48.00**
No. 886AC150	White Replacement Bulb	**$51.00**
No. 886LI102	Ultraviolet Replacement	**$72.00**
No. 886LI103	Yellow Replacement	**$72.00**

FL 3000 Micro-Lite



No more burned-up fiber optics! The FL 3000 Micro-Lite features cool, solid state design with 45% more light. Intense, cool, white light due to the internal IR filter. Dual point Illuminator includes two focusable lenses. Steel components provided for ESD safety.

A. Dual Point Gooseneck Light
Points light where you want it.
No. 886IN301 ..... **$704.50**

B. Single Ring Light
No. 886IN300 ..... **$760.50**

Olympus

Olympus Precision Zoom Microscope - TKVB-040

This zoom microscope is designed from prisms providing excellent resolution and a greater range for the money. Your scope has features including standard zoom range from 9x to 40x. Included you'll find a 0.5x supplementary lens that reduces the zoom range down to *MIL Standard2000A* (4.5x-20x). The Micro-Lite™ shadowless ring light provides the greatest color resolution in the industry.

4.5x - 40x Turn Key Microscope
No. 886IN040 ..... **$2590.00**

Olympus SZ4045 Stereo-Zoom Microscope

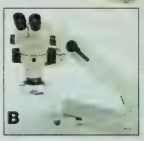
Microscope magnification is 0.67 -4x with zoom ratio 6 working distance of 110mm. Supplied with the Micro-Lite 150 watt solid state fiber-optic light, this superior fiber optic bulb is cool, bright and reliable. Completely made of steel for ESD safety. Included: Scope body, eyepiece, stand stage plate, stage clip, microlite and cover.

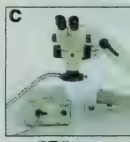
A. No. 886IN060 ..... **$3109.00**

B. GZ4045 with SMS Arm & Ring Light
No. 886IN414 ..... **$3275.00**

C. GZ4045 with SMS Arm & FiberOptic Ring Light
No. 886IN415 ..... **$3794.00**

D. GZ4045 with SMS Arm & FiberOptic Dual Light
No. 886IN416 (Not Shown) **$3665.00**

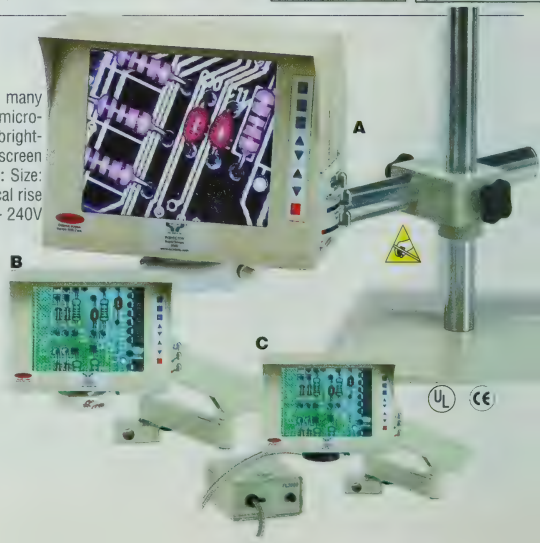




O.C. White

Inspector Revolutionary "Super Scope 2000"

Give your workers the ability to inspect, assemble, and repair without the strains and pains of daily use of microscopes. This viewing system will enhance and simplify many functions without having your workers bending over eyepieces, causing back wrenching microscope fatigue. This ESD safe cabinet has easy adjustment of contrast, zoom, focal, and brightness. Has a zoom view of 3.6X - 36X, and large Hi resolution of a large 10.4" TFT/LCD screen with 600 x 400 pixel resolution, plus an adjustable working distance of 6" to 18". **Specs:** Size: 10.4" TFT/LCD screen; Base: 48lb. standard microscope base with 5/8" holder, 13" vertical rise pipe, and 18" optional vertical rise pipe; Light: 35KHZ electronic fluorescent light. 100 - 240V Switchable. **Warranty: 120-day electronic guaranty; One-Year LCD screen. (USA)**



A. Complete Unit
No. 886IN440 (TKSS-40) **$4495.00**

Unit Without Base
No. 886IN441 (SS-40) **$4214.00**

B. SuperScope with SMS Arm and Ring Light
No. 886IN413 ..... **$5180.00**

C. SuperScope with SMS Arm & FiberOptic Ring Light
No. 886IN417 ..... **$5630.00**

D. SuperScope with SMS Arm and FiberOptic Dual Illuminator (Not Shown)
No. 886IN418 ..... **$5580.00**

Accessory:
Multiplier 2X Lens.
No. 886IN212 ..... **$249.00**

LEASING AVAILABLE!

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Meiji Techno Stereo Zoom Microscopes

This new ESD safe Meiji Techno Stereo Microscope (mounted on an O.C.White stand) provides high quality zoom magnification from 2.1X-270X with optional accessories. Excellent crisp, high resolution images and superior depth of field. Ergonomic 45° eyepieces, ESD safe construction, and various options for increased magnification, all at moderate price levels. Excellent value for high end quality. Zoom controls on the side for easy and ergonomic use. Standard zoom from 7-45X while maintaining clear, crisp focus throughout the range. Color: Light Grey. ***Lifetime-Warranty.*** (Japan)

No. 886IN704

No. 886IN705

No. 886IN706

New!

No. 886IN703

JUST THE FACTS						
TT No.	**886IN703**	**886IN704**	**886IN705**	**886IN706**	**886IN707**	**886IN710**
Model	TKMZ-73	TKMZ-A	TKMZ-D	TKMZ-SMS	TKMZ-SMSA	TKMZ-SMS-D
Meiji EMZ-5	X	X	X	X	X	X
Meiji Eyepieces 10x	X	X	X	X	X	X
Micro Lite Flourescent Light	X	–	–	X	–	–
Micro Lite Fiber Optic Illuminator	–	–	–	–	X	–
Micro Lite Ring	–	–	–	–	–	X
O.C. White Base	X	X	X	–	–	–
O.C. White Flex Arm	–	–	–	X	X	X
Meiji Pod	3.5X - 45X	.7-4.5X	.7-4.5X	.7-4.5X	-	-
PRICE	**$2260.00**	**$2710.00**	**$2660.00**	**$2915.00**	**$3365.00**	**$3315.00**

LEASING AVAILABLE!

LEASING AVAILABLE!

Call For a Demo in Your Area!

3D BGA Inspection System

The 3D BGA Inspection System is constructed with ESD safe components that allow for easy inspection of placement, alignment, micro cracking, surface structure, excess flux, and much more and is designed with a 3D rotary head that offers an incredible depth of field with a magnitude of 50 to 200x and a 3D rotary head providing a 360° 3D inspection without tilting the board. The unique, versatile and flexible metal halide light source provides 12V light source with 4 fiber optic light bundles that illuminates with a white light of 5500°K; a process that provides true daylight illumination for color rendering and color balance. No blind spots! The external power supply is capable of operating between 90 and 240VAC and 50-60Hz and the AC input cord is interchangeable with international cord sets. Provides hi-resolution real-time images that are clear, sharp, and bright captured by Panasonic's finest CCD camera, and then transmitted to the hi-resolution 15 color monitor. No more back fatigue and neck strain from microscope inspection. The state of the art stage, stand, and XY table make for an easily functional, attractive and durable support system allowing for the most flexibility in inspection processes. **(USA)**

No. 886IN125..... $27995.00

LUXO®

Luxo System 300-FLX

The trinocular stereo-zoom microscope system with its CCD camera/monitor set-up permits excellent viewing of soldering joints and proper component placement/alignment to ensure great quality and reliability. **Includes**: CCD camera, CCD adapter, and 14" color monitor.

A. No. 516IN418 ..... **$3080.00**

Luxo System 200-FL

Binocular stereo-zoom microscopes enables you to achieve the exact magnification needed to confirm product quality, solder fine leads and complete rework operations with ease.

B. No. 516IN412 ..... **$1540.00**

Luxo System 100-FL

Work with the ease and versatility the Luxo System 100-FL offers you. 1x-2x stereoscope features high quality achromatic lenses with anti-reflective coating for superior visual clarity.

C. No. 516IN422 ..... **$1365.00**

Accessories

Optional Fiberoptic Light and Power Source

Ring light with adjustable light ports to eliminate bounce-back glare.

No. 516AC001 (Not Shown) ..... **$590.00** (needs power source)

No. 516IN050 Power Source **$590.00**

D. Flourescent Ring Light with Adapter

No. 516IN442 ..... **$590.00**

No. 516IN717 Replacement Bulb **$590.00**

Eyepieces

No. 516AC456 5x Eyepieces (pair) **$100.00**

No. 516AC458 10x Eyepieces (pair) **$105.00**

No. 516AC460 15x Eyepieces (pair) **$105.00**

No. 516AC462 20x Eyepieces (pair) **$110.00**

Lenses

No. 516AC450 .5x Reducing Lens **$141.00**

No. 516AC452 1.5x Amplifying Lens **$100.00**

No. 516AC454 2.0x Amplifying Lens **$100.00**

No. 516AC464 Eyepiece shields (pair) **$6.00**

No. 516AC466 Protective Glass Shield **$15.00**

Inspection Systems

ClearView Instruments

9000 Series Video Inspection System

This system allows you adjustable magnification, and unique viewing angles. Using flexible bilateral illumination, you have a shadow free viewing area. Intuitive focusing promotes fast and accurate inspection for hard to view regions of interest. The digital signal-processing sensor separates the 9000 Series System from other video imaging systems. All external cables and transformers have been eliminated and replaced by a single power source. **Specs:** Monitor Resolution: NTSC/PAL 525 lines of resolution; Device/sensor 9900 Series: 1/3" IT-Hyper CCD Sensor; Pixel Elements Effective: NTSC 768(H) x 494(V), PAL 752(H) x 582(V); Scanning Area: 6.5(H) x 4.8(V)mm; System Scanning: NTSC 525/60Hz 2:1 interlace, PAL 625/60Hz 2:1 interlace; Horizontal Resolution: 450 TV lines; Minimum Illumination: .04 lux with AGC on; Sensitivity: 1000 lux @ F8.0, 3200K; Shutter Speed: 1/60 - 1/10,000; Automatic Gain Control: on (0-8 lbs)/off; Back Light Compensation: provided 1 or 2 selectable; Negative-Positive Reversal: Provided; Video Output Signal: (NTSC/PAL), Y/C (S-Video); Power Source: +12VDC; Power Consumption: 4.5W or less; Lens Type: 50mm (standard); Camera Dimensions: Diameter: 17mm x 42mm; Stage Height: Fully Extended (±18"; Light Source (stage mount). ***One-Year Warranty.*** **(USA)**

No. 248IN9900 Video Inspection System **$7499.00**

No. 248AC9901 25mm Auxiliary Lens **$399.00**

No. 248AC9902 75mm Auxiliary Lens **$499.00**

L-52 Inspection & Work Station Stereoscope

Device Viewer with Flexible Arm. Locks in position. Convenient, space saving. Bolt or Clamp Down. Maximum distance 550mm. Lighting system included. **Specs:** Total magnification (view) 10x 20x 5x when 0.5x objective is used. 1x, 2x, revolver system. Stereo head is able to rotate 360°. The eyepieces are inclined 45° for comfort. Eyepiece WF 10x. Eyepieces are adjustable for focus. Adjustable eye distance range is 55-74mm. Wt.: 15 lbs. Includes desk mount clamp. (Japan)

No. 445IN052 ..... **$1974.50**

LEASING AVAILABLE!

Accessories For L-52 SIIN Stereoscope

No. 445IN057 L-57 - Conversion Lens - 1.5x To provided a large field of view. **$148.50**

No. 445IN058 L-58 - Eyepiece - 10x set of 2 ..... **$137.50**

No. 445IN059 L-59 - Eyepiece 20x Extendible to 40x set of 2 **$181.50**

No. 445IN068 L-68 - Eyepiece w/ Cross Hair Scale 10x **$132.00**

No. 445IN069 L-69 - Eyepiece with Metric Scale 10x **$132.00**

L-65 Ring-Light Lighting System

Mounted on stereo head to illuminate specimen from above. Inverter circuit is provided to eliminate flicker of light. This reduces eye fatigue. Eight Watt, daylight fluorescent lamp. 50/60 Hz.

No. 445IN065 ..... **$385.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

ClearView Instruments

LEASING AVAILABLE!

A. ClearView™ Binocular Stereoscope Pedestal Microscope System

This microscope provides excellent resolution and image quality with easy-to-use functions to provide faster, more reliable identifications, analysis and sample measurements. A scratch and chemical-resistant contrast plate is secured to the stage by springs to aid your inspections. ***Lifetime Guarantee on Stereoscope.***

No. 248IN026 ..... **$1149.00**

B. ClearView™ Economy Microscope System

This economical microscope features a large field of view, long working distance, fine image quality, high resolution, compact size and ease of operation. Includes 3" threaded extension post. **Specifications**: Total magnification: 20x, 40x; Objective: 2x, 4x (parfocal achromatic lens); Eyepiece: 10x; Field of View: 2.8mm-10mm; Working Distance: 60mm; Focusing: rack and pinion focus with 50mm range of adjustment; Binocular tube: 45° inclined, 360° detachable, rotatable head; Stage plate: 4" lockable, black or white reversible with spring clips. ***Lifetime Guarantee on Stereoscope.***

No. 248IN024 ..... **$575.00**

Options:

D. Fiber-Optic Annular Ring Illuminator

Provides shadowless lighting with extreme low noise and vibration. Includes 100W light box, annular ring and adapter. Rheostat light control gives maximum illumination without noise or vibration.

No. 248IN470 ..... **$785.00**

E. Fiber-Optic Dual Point Illuminator

Positional dual point light guides have self supporting chrome arms and adjustable slide lock lenses allowing spot sizes to vary from .16" to 2.87". Includes 100W light box, dual point illuminator, focusable lenses and adapter.

No. 248IN452 ..... **$629.00**

F. Fluorescent Microscope Illuminator

Non-flickering high frequency operation allows photography and viewing through CCD Cameras. Replaceable full spectrum white bulb standard.

No. 248IN430 ..... **$249.00**

G. ClearView™ Binocular Stereoscopic Zoom Microscope System

This scope provides superior optical design for outstanding resolution and brilliant, sharp images. Prisms in the optical system maximize light transmissions, while a parfocal zoom system keeps the image in constant focus. No refocusing necessary! Comfortable 45° inclination for fatigue-free viewing and four illuminator options to suit your needs. ***Lifetime Guarantee.***

Binocular Stereoscopic Zoom Microscope
With weighted boom stand and Fiber Optic Ring Illuminator.
No. 248IN254 ..... **$1799.00**

Binocular Stereoscopic Zoom Microscope
With weighted Boom Stand and Fluorescent Ring Illuminator with Adapter.
No. 248IN251 ..... **$1429.00**

Binocular Stereoscopic Zoom Microscope
With weighted boom stand and dual point fiber optic illuminator.
No. 248IN253 ..... **$1799.00**

Binocular Stereoscopic Zoom Microscope with boom stand only.
No. 248IN025 ..... **$1399.00**

Binocular Stereoscopic Zoom Microscope with pedestal only.
No. 248IN026 ..... **$1149.00**

1600 Series Zoom Monoscope Video Systems

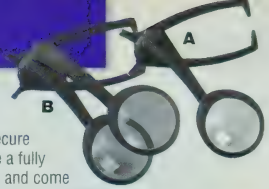
The single Zoom Monoscope is an economical system designed purely for inspection and quality assurance applications. The Zoom Monoscope tube fits on a pedestal or boom stand hooked directly to a CCD Camera and Monitor. Has a zoom range from .7X to 4.5X which can expand from less than 1X to 18X.

Fiber Optic Dual Point Illuminator and Pedestal Base
No. 248IN1651 ..... **$2649.00**

Auxiliary Lens
No. 248AC663 (MOD663) .3X **$99.00**
No. 248AC664 (MOD664) .5X **$99.00**
No. 248AC665 (MOD665) .75X .. **$99.00**
No. 248AC666 (MOD666) 1.5X .. **$99.00**
No. 248AC667 (MOD667) 2X..... **$99.00**

Photo Eyepiece
No. 248AC673 (MOD673) .3X **$99.00**
No. 248AC674 (MOD674) .5X **$99.00**
No. 248AC675 (MOD675) .75X .. **$99.00**
No. 248AC676 (MOD676) 1.5X .. **$99.00**
No. 248AC677 (MOD677) 2X.... **$99.00**

Clear Photo Eyepiece
No. 248AC672 (MOD672) **$99.00**



Eyeglass Loupes

These precision optical glass lenses are lightweight and durable. Designed for a secure fit on all shapes and size eyeglasses. Have a fully adjustable lens for optimum performance, and come in a customized storage case. Lens Diameter: 24mm. **(USA)**

Eyeglass Loupe 3; Power: 3X; Focal Distance: 3.3"; Diopters: 12
B. No. 178PR841 ..... $23.45

Eyeglass Loupe 5; Power: 5X; Focal Distance: 2"; Diopters: 20
B. No. 178PR845 ..... $24.70

Eyeglass Loupe 7; Power: 7X; Focal Distance: 1.5"; Diopters: 28
B. No. 178PR847 ..... $25.80

Eyeglass Loupe 3 - 5; Power: 3X, 5X combined;
Focal Distance: 3.3", 2"; Diopters: 12, 20 combined.
B. No. 178PR848 ..... $30.35

Bausch & Lomb Eyeglass Loupes

Attaches to eyeglass temples of various sizes. Flips easily out of the way. Optical-quality glass. Single and double lens styles.

TT No.	Working Distance	Magnification	PRICE
A. 178IN062	3.3"	3x	$23.45
A. 178IN068	2"	5x	$24.70
A. 178IN100	3.3", 2"	3, 5x	$30.35
A. 178IN098	2.5", 1.5"	4, 7x	$30.35

Behr Spectacle Loupes

Single Loupes

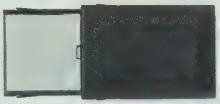
TT No.	Focal Lgth.	Magnification	PRICE
298IN048	2"	5x	$25.00
298IN050	2-1/2"	4x	$25.00
298IN052	3"	3.3x	$25.00

Double Loupes

TT No.	Focal Lgth.	Magnification	PRICE
298IN038	2-1/2"-1"	4x-10x	$37.30
298IN036	2"-1"	5x-10x	$37.30
298IN044	2-1/2"-1-1/2"	4x-7x	$37.30
298IN042	3-1/2"-2"	3x-5x	$37.30

Use in Low Light Environments.

Compact Light Magnifier



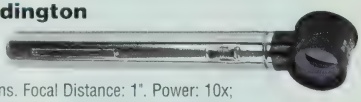
For your tool box, glove box or desk, you'll have illuminated magnification at the touch of a button. A 2", 2x magnification lens retracts and stores in its own protective case. Two *AAA* batteries included.
No. 178IN008 ..... $6.85

Get Edge-to-Edge Sharpness For Inspection!

Folding Lighted Magnifier

This 2" x 4" illuminated magnifier has a 2x magnification lens that gives you edge-to-edge sharpness for quality control and inspection. The unit has a unique swing-open handle and case. Batteries included.
No. 178IN090 ..... $17.15

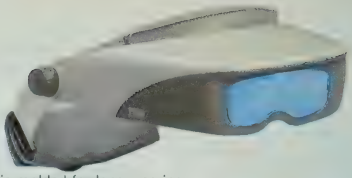
Illuminated Coddington



Eliminates problem of insufficient light on objects by means of a flashlight bulb in the groove of the lens. Focal Distance: 1". Power: 10x; Diopters: 40D. *Uses two AA Batteries. (Batteries not included).*
No. 178IN032 ..... $22.30

Prices in this catalog are effective January 1, 2001. While we attempt to hold prices, we cannot control when our vendors increase prices.
All prices are subject to change without notice.
We reserve the right to correct misprints.

Magna Visor



Bausch & Lomb quality optics and contemporary design have come together to give you the finest visor you can own. The frame is padded with a removable, washable fabric and is molded for long wearing comfort. Acrylic lenses. **(USA)**

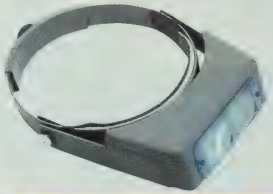
Visor with 12" lens; 1.8X Power; 7.2 Diopter
No. 178PR814 ..... $25.75

Visor with 8" lens; 2.2X Power; 8.8 Diopter
No. 178PR142 ..... $25.75

Visor with 6" lens; 2.6X Power; 10.4 Diopter
No. 178PR420 ..... $25.75

High Impact Opti-Visor

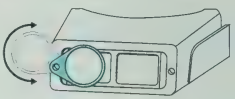
Can be raised out of the way of normal vision when not needed. Padded head band adjusts to shape of head. Weighs only 4 oz. Use with or without eye glasses.



- **Genuine Leather Comfort Band, Conforming Headband**
- **Patented, Dial Continuous Head Band**
- **Tilts in any direction**
- **Optical Glass Lenses**
- **High-Impact Visor**

OPTI-VISOR				Replacement Lens Plate	
No.	Mag.	Range	PRICE	No.	PRICE
298IN076	1-3/4x	14"	$31.00	298IN026	$19.00
298IN078	2x	10"	$31.00	298IN028	$19.00
298IN080	2-1/2x	8"	$31.00	298IN030	$19.00
298IN082	2-3/4x	6"	$32.00	298IN060	$19.00
298IN072	3-1/2x	4"	$32.00	298IN010	$19.00

Opti-Loupe Accessory



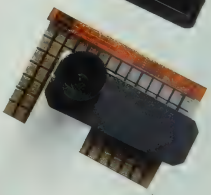
Easily attaches to either side of any Opti-Visor and swings out of the way like a spectacle loupe. Adds extra 2-1/2x for monocular use; up to 6x magnification.
No. 298IN084 ..... $6.00

Magna-Lites

Light beam illuminates magnified areas. 5x, 1-1/4" square lightweight acrylic lens, with on-off switch. *(Batteries Included)*
A. No. 534IN010 ..... $8.00
Same as above but twice the magnification.
No. 534IN012 ..... $17.00
Large version 2x lens with 4x insert, 3-1/4" dia.
B. No. 534IN014 ..... $22.00

Access Your Information – Anywhere!

Hand-Held Viewer



Source document or aperture cards– this hand-held viewer uses ambient light and provides instant access in the office or in the field. View data up to 13x. Dimen: 1.2" x 2" x 6.2"; Wt.: 6.4 oz. Construction: High impact plastic and aluminum.
No. 468IN113 ..... $98.50

Clean Eyeglasses, Computer Screens & More!

Sight Savers® Lens Cleaning Tissues

These anti-fog, anti-static pre-moistened lens cleaning tissues are perfect for the lab, office or in the field. Individually packed, each package contains a large 5" x 8" tissue treated with special surfactants. 100 tissues per dispenser, 10 Dispensers/Case. **(USA)**
No. 178CH574 ..... $101.15

Bausch & Lomb Measuring Magnifiers

Valuable tool wherever precision work is performed. Available in "stand" style or illuminated LENSCOPE model. Both use B&L's highly-corrected Hasting Triplet lens. Adjustable for individual focus, providing a flat, clear, distortion free image. Both styles usable with photo-metallic glass measuring scales: order separately.

Hastings Triplet Measuring Magnifier

This 7x Hastings lens provides a flat, distortion-free image. The transparent body allows illumination to fall on the magnified area. Leather case included. (Scales not included).
No. 178IN034 ..... **$48.20**

Measuring Scales

General purpose scale for measuring radii from 1/8" to 5/8" in 1/32nd". Angles in single degrees to 90°. 10mm scale in 0.1 increments. 1/2" scale in 0.005" increments.

A. Line widths of .001", .002" and .003".
No. 178IN036 ..... **$27.30**

B. Metric. 20mm in 0.1mm intervals.
No. 178IN040 ..... **$27.30**

C. Inch. 3/4" in 0.005" intervals.
No. 178IN038 ..... **$27.30**

Lenscope™ 7x -10x Power

Fits in the palm of your hand. Two illumination lamps, 45° or 90° from the viewing angle; uses two AA batteries (not included). Ergonomic plastic body fits easily in a pocket. Hinged-top storage case included. Order scales separately.

TT No.	Power	Focal Dist.	Lens Size	PRICE
178IN142	10x	1	15.9mm	$45.75
178IN143	7x	1.5	19.8mm	$45.75

6.4x Magnifier, Comparator W/4 Reticles!

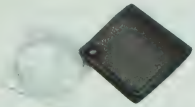
Optical & Inspection Pocket

Extreme accuracy. Low parallax...one scale per reticle. Comparator & four assorted pairs. Reticles in compact case.

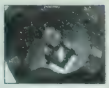
Finescale Optical & Inspection Pocket Set
No. 368IN114 ..... **$54.00**
10X Comparator Only, Without Reticles
No. 368IN116 ..... **$41.50**

Attached Case Magnifier

1-3/4" diameter, two power, ophthalmic-quality lens. Attached case serves as both protector and handle.
No. 298IN090 ..... **$6.70**



The Inspector



Pocket-size prism magnifier allows a 360° inside view of your printed circuit board holes. Automatically in focus on contact with surface. Instant detection of potentially costly imperfections. No training required. Low cost. Check drilling work, repair work in industries such as watch and jewelry, camera equipment, and machine shops.
No. 118PR010 ..... **$83.30**

Inspection Eye Loupes

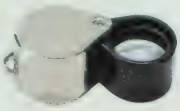
Optical-quality glass lens. Considered the standard in the industry for many years. Lightweight. Rests comfortably in the eye socket. For work on highly polished surfaces, reduces glare and increase contrast for better details with RAY-BAN lens.

TT No.	Working Distance	2x-8x Magnification	Lens Dia.	PRICE
178IN082	1	10x	1	$10.70
178IN084	1-1/2	7x	1	$9.00
178IN086	2	5x	1	$9.00
178IN088	2-1/2	4x	1	$9.00
178IN054	1-1/4", 1/2"	8, 18x	1, 1/2	$20.65
178IN050	2-1/2", 1-1/4"	4, 8x	1, 1/2	$18.30

Hastings Triplet

Highly-corrected magnifiers. Bausch & Lomb's finest. Three separate lenses, bonded together to form a compound lens, provide sharp, very distinct images. No color distortion even under 14-20x power. A swing-away, nickel-plated case protects lens and serves as a handle.

TT No.	Focus	Power	PRICE
178IN128	1-1/2"	7x	$30.70
178IN130	1"	10x	$32.10
178IN132	3/4"	14x	$37.85
178IN134	1/2"	20x	$37.85



Folding Pocket Magnifiers

Has a wide range of powers; 3-20x. By combining lenses, three powers are available with 2-lens models, seven different powers with the 3-lens model. The swing-away case also serves as a handle.

No. of Lens	No.	Lens Dia. (mm)	Powers	PRICE
1	178IN016	36	4x	$11.50
2	178IN018	37	3x-7x	$16.40
2	178IN020	23	4x-9x	$16.20
2	178IN022	20.3	5x-12x	$16.20
3	178IN024	20.3, 15.2	5x-20x	$19.70

Spanner Wrench Set

Fully-adjustable set easily removes optical retaining rings without causing damage. Adjustable from 1/2" to 7". Tips slip into arms and lock securely with set screws. Includes three sets of tips–straight blades 3/16"L x 1/32"W & 3/16"L x 1/16"W, round point 1/16" dia.– which fit most retaining rings. Includes 3-1/2" and 7" high tensile steel hex bars and set of adjustable arms 3-1/2" to 3" below wrench body.
No. 328WR751 ..... **$69.50**
Replacement Tips Includes three sets: straight blade 3/16"L x 1/32"W; straight blade 3/16"L x 1/16"W; pencil point 1/16" dia.
No. 328WR565 ..... **$19.50**

Mini-Spanner Wrench Set

Two permanent tip spanner wrenches, each adjustable from 1/4" to 3-1/4"; machined anodized steel construction, each has two 3/16" dia. slide bars, two 3/8" dia. x 4" long arms with locking screws; permanent tips are 1/16" diameter offset pencil points on one tool and 3/16" offset straight flat on other.
No. 328WR413 ..... **$44.95**

Sunnex Swivel Lamp

The swivel lamp head provides 360° axial rotation and 90° angular adjustment. Designed with a scratch resistant sleeving and polymide plastic housing that stays cooler than standard plastics. **Features:** clear lens; flood reflector; 12V-20W halogen bulb; 710 trafo housing; swivel joint; 7 ft SJT Cord. **Specs:** Gooseneck Length: 20" and 27"; Articulating Arm - 32" Length; 110V power supply; Color: Black.
(USA)
Magnetic Base
No. 742IN701 ..... **$142.80**
C-Clamp
No. 742IN702 ..... **$176.80**

10-Year Mechanical Arm Warranty!

A. Vision-Lite 2000 Illuminated Magnifier

Features "No fluorescent flickering," ESD-safe shade and *MIL STD 2000* approved lens; plus it has a dimmable, illuminated bulb which allows any operator to change illumination intensity from 100% to 25%. **Features:** 7.5"W x 6.2"H, clear 3-diopter lens; (1.75x-1.85x mag.); EZ-Swivel allows lens rotation in any direction. Clamp-On Mount. ***Ten-Year Mechanical Warranty.*** **(USA)**

No. 886IN404 Off-White Vision Lite **$359.20**
No. 886IN406 Black Vision Lite **$324.00**
No. 886PA392 Glare-Free Replacement Bulb **$34.25**
No. 886IN240 Off-White Vision-Lite with 2x, 4 diopter lens **$383.20**
No. 886IN408 Black Vision Lite with 2x, 4 diopter lens **$460.00**
No. 886IN241 Lite with Anit-Reflective Coating Lens **$460.00**

B. Glare Free Big Eye™ Illuminated Magnifier

Our 7.5" diameter, 3 diopter optical-quality, clear glass lens provides over 49" sq. of viewing area and 1.75x total magnification, which reduces eye fatigue. Shadow-free illumination from special 34W, "Glare Free," circuline bulbs reduce glare by up to 60% and provide over 300 foot candles of light at a typical 12" working distance. Clamp-On Mount. ***(220V Available.)*** **(USA)**

B. Big Eye® - 3-diopter (1.75x) Clamp-On Mount
No. 886IN525 120 VAC Cool White Bulb **$319.20**
No. 886LI524 120 VAC Glare-Free Bulb **$323.20**

2x Big Eye® - 4-Diopter (2x), 37" Clamp-On Mount
No. 886LI400 120 VAC Glare-Free Bulb **$363.20**
No. 886IN524 220 VAC Glare-Free Bulb **$348.70**

Big Eye Replacement Bulbs
No. 646MI040 Cool White .. **$25.60** **No. 886LI100** Glare-Free.... **$32.00**

C. Magnilite® 5" Illuminated Magnifier

Our superb 5" Magnilite® offers you clear image quality and durable all-metal construction at a great price! Features an optical-quality lens that has superior light transmission as opposed to other manufacturers' green glass lenses. A spun-aluminum shade and separate, bright white, liner safely house a 22W circuline bulb that provides over 200 Fc of shadowless illumination. ***(220V Available.)*** **(USA)**

3-Diopter (1.75x), 45" Clamp-On Mount
No. 886IN139 120 VAC Glare-Free Bulb **$166.40**
No. 886LI220 220 VAC Glare-Free Bulb **$171.25**

3-Diopter (1.75x), 25" Portable Base
No. 886IN739 Off White **$218.40**

5-Diopter (2.25x), 45" Screw-On Base
No. 886IN1395 Off White **$180.00**

5-Diopter (2.25x), 25" Portable Base
No. 886IN395 ..... **$218.40**

22W Replacement Bulbs
No. 886PA367 Cool White .. **$12.80** **No. 886MI081** Ultra Violet .. **$32.00**

D. Ultra Violet 5" Magnilite® Illuminated Magnifier

This black-light vision magnifier will show plating voids, copper cracks and conformal coating problems, under standard 3-diopter crystal clear magnification. 5-diopter optional. UV Bulb included. ***(220V Available.)*** **(USA)**

3-Diopter (1.75x), 45" Clamp-On Mount
No. 886LI139 - 45" Reach - 120 VAC UV **$166.40**

3-Diopter (1.75x), 45" Screw-On Base
No. 886IN237 120 VAC Off White 45" Reach **$195.00**

No. 886MI081 22W UV Replacement Bulb **$32.00**

E. "Halo" Magnilite®

"HALO" Magnilites® are superb for assembly or inspection operations that require all-day use. The special translucent design, creating a near-perfect blend of light, reduces eye fatigue. Lens is mounted on deluxe arms for maximum use without failure. **Features:** 3-Diopter Lens (1.75x); glass lens; 45" arm reach; white, polycarbonate halo shade; 22 watt cool white bulb included. On/Off switch; 3-wire cord; Black arm. ***(220V Available.)*** **(USA)**

No. 886LI138 Clamp-On 120 VAC Black ..... **Special $99.95**
No. 886PA367 Replacement Bulb **$12.80**

F. ESD-Safe Fume Absorber

New multi-positional fume absorber allows smoke and irritant fumes to be removed from the work area. **Features:** activated carbon filter, rugged deluxe arm, safety switch. Clamp-on unit saves valuable bench space. Absorber is on a 40" double arm. **(USA)**

No. 886PR020 ..... **$214.30**

Replacement Filters - 5 pc
No. 886PR001 ..... **$25.00**

G. Ultraflex® Exhaust Fan

The Ultraflex® Exhaust fan features a large-capacity 475 C.F.M. fan mounted on the industry's strongest 40" spring arm assembly. The approved three-blade fan, with 1/4" steel safety shield, provides tremendous air movement. The Exhaust Fan is perfect to move fumes and airborne particles away from production areas. Clamp-On Mount. **(USA)**

No. 886LI500 ..... **$316.00**

Diopter Magnification Chart

Lens Diopter	Magnification	Focal Length	Viewing Area
3	1-3/4x	13"	5"
5	2-1/4x	8"	5
7	2-3/4x	5-1/2"	4"
9	3-1/4x	4-1/2"	4
10	3-1/2x	4"	1-1/2"

Focal Length must be maintained to achieve magnification rate.

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

All Luxo Lamps are Made in USA and have a five year warranty.

A. LC–Color Correcting Inspection Light

Color Correcting Lamp... incandescent and fluorescent. Gives 500 ft-candles at 12" using a 60 watt bulb (646MI012) & a T-9 fluorescent bulb (646MI032). Color: Gray.

No. 516LI046 45" Reach w/base **$165.45**

No. 516LI048 30" Reach with heavy cast base..... **$236.90**

B. LS Incandescent Task Light

Use this light to provide a broad area of warm incandescent light to your work surface. Features: Dual cooling system; Adjustable, 45" spring-balanced L-Arm; 100-watt approved (60W included); Clamp-on mount. Color: Gray.

No. 516LI001 ..... **$115.80**

No. 516MI388 Replacement 60 watt bulb **$3.95**

C. FL Fluorescent Task Light

Two Tube Fluorescent with clamp for horizontal surfaces mounting. Gray.

No. 516LI034 Reach 45" w/ edge clamp..... **$165.45**

No. 646MI014 Fluorescent Tube 15 Watt **$6.00**

D. Fluorescent Fume Extractor Light

State-of-the-art, replaceable air-purifying foam filter includes activated charcoal which traps most VOCs, fluxes and fumes. **Features:** Instant-On; 3-Position Switch; Exhaust Filter; Lower-Arm-Ballast Housing, Shielded, 5-Blade Exhaust Fan: 100 CFM at 2900 RPM: 45" K Arm.

No. 516LI165 Lamp, Edge mount **$295.00**

No. 516AC277 Replacement Filters, 4-Pack..... **$18.00**

E. KFM Illuminated Magnifier

For extra close inspection work and intricate assembly. Interchange mounting available. *Other Colors Available.*

45" Reach Arm – Clamp Mount – Lt. Gray

No. 516LI113 3 Diopter **$209.00**

No. 516LI115 5 Diopter **$220.35**

No. 516LI110 10 Diopter **$244.40**

No. 516LI114 220V, 3 Diopter **$260.00**

30" Reach Arm – Clamp Mount – Lt. Gray

No. 516LI213 3 Diopter **$209.00**

30" Reach Arm – Weighted Base

No. 516LI253 3 diopter, Lt. Gray **$278.25**

No. 516LI255 5 diopter, Black **$289.55**

KFM Accessories

No. 516IN010 3 Diopter lens **$25.00**

No. 516LI022 5 Diopter lens **$28.90**

No. 516LI010 10 Diopter lens **$60.15**

No. 516LI070 4 Diopter Secondary Lens **$41.35**

No. 516LI072 8-Diopter Secondary Lens **$45.15**

No. 516LI012 10-Diopter Lens Secondary **$90.25**

No. 646MI032 Replacement 22W Bulb **$9.75**

3.5 Diopter - Wide-Angle Visual Enlargement!

F. Wave + Plus™

Wave+Plus offers a wide field, 6.75" x 4.5", of distortion-free magnification (1.85x) in a slim profile housing so that the product is "minimally invasive" to the work area. It's integrated dual 13W florescent lamps offer full illumination (both lamps on) or better 3-dimensional viewing with just one light on.

No. 516IN846 Arm: 30" K , Mount: Clamp bracket *(Shown)*..... **$334.65**

No. 516IN847 Arm: 30" K, Mount: Weighted base *(Not Shown)* **$387.30**

No. 516IN845 Arm: 45" K , Mount: Clamp bracket *(Not Shown)*.... **$334.65**

Wave + Plus™ Accessories

No. 516AC074 4d lens Attachment..... **$41.35**

No. 516AC078 8d lens Attachment **$41.35**

No. 516AC205 13W Replacement Tube **$18.80**

G. Wave™ Plus A/R

Wave+Plus AR models come with an anti-reflective (A/R) coating which virtually eliminates glare from overhead lighting and enables operators to sit in a proper ergonomic position while working (the multi-layer coating averages .5% reflectivity per coated surface over wave length of 400-700 nm). Coating meets Mil-Standard C-675C. Both standard models and A/R models come on K-Arms with internal springs which are available in 45' or 30" lengths. Mounts via clamps or bases.

Desk Mount 30" arm, 10" x 10" Base

No. 516IN843 ..... **$537.70**

Edge Mount 30" arm

No. 516IN842 *(Not Shown)* **$522.65**

Edge Mount (Fits edges up to 2") 45" arm

No. 516IN841 *(Not Shown)* **$522.65**

Ledu Taskmaster Series

The Taskmaster Series includes illuminated magnifiers and circline fluorescents equipped with spring-balanced, strut arms. Your magnifier features: a 42" heavy-duty arm that provides flexibility and durability; 3-diopter or 5-diopter lens; 22-watt circline fluorescent light bulb; splash guard; convenience outlet in base; and three-conductor cord. ***Three-Year Warranty.***

No. 516IN712 3-diopter, White **$140.00**

No. 516IN713 5-diopter, White **$148.00**

U-V Magnifier Light

Detect hairline cracks, pores, leaks, contaminants and other flaws and foreign matter in liquids or solid material that are invisible to the naked eye with this hand-held U-V light. Has 2 ultra-violet and 2 fluorescent white lights. White lights are used for normal inspections and ultra-violet lights find defects when used with ultra-violet sensitive powders, pastes, liquids or penetrating dyes. **(USA)**

No. 516IN6401 ..... **$229.35**

Lamps & Magnifiers

Please call for a demo in your area!

DAZOR
All Made in USA.

A. Circline Illuminated Magnifiers

Ideal for quality control, inspection and assembly functions. Magnifier uses a 22W circline fluorescent tube for even, shadow-free light from all sides. Optical glass is used in the 3-diopter lens and provides distortion-free magnification of 1.75x at 13". Adjustable, universal base and 22W fluorescent tube included. *220 VAC Available.*

No. 284LI201 Clamp-On 42" Gray..... **$178.50**
No. 284LI202 Desk Base 28" Gray..... **$199.75**
No. 284LI203 Clamp-On 42" Black..... **$178.50**
No. 284LI204 Clamp-On 28" Black..... **$199.75**
No. 284MI1408 Polycarbonate Shields **$11.90**
No. 646MI032 22W Cool White Tube..... **$9.75**

B. ESD Safe Hi-Lighting Magnifier

For electrostatic-discharge-free workstations. Color: Gray. *Meets MIL B-81705C.*

No. 284LI400 3 Diopter, Desk Base 26" .. **$195.50**
No. 284LI450 3 Diopter, Clamp-On 26".... **$174.25**
No. 284IN500 5 Diopter, Clamp-On 40" .. **$198.00**
No. 284LI501 3 Diopter, Clamp-On 40" .. **$174.25**
No. 284LI035 13W Natural Light Fluorescent Tube **$7.65**

C. Broad Table Area Fluorescent Lights

The industry standard for architects, engineers and drafting professionals. The high-luster, mirrored reflector reduces glare, controls shadows, and directs the light where you want it. It comes standard with a universal clamp that mounts to any surface. Shipped with two F15T8/CW tubes. Color: Gray.

No. 284LI002 Desk Base, 30" Reach..... **$204.00**
No. 284LI001 Clamp Base 44" Reach **$182.75**
No. 646MI014 15W Cool White Replacement Tube **$6.00**

D. Magnifier-Flex Lamp

This magnifier lamp uses a 13W, compact fluorescent tube mounted on a flexible gooseneck arm. Glass lens is 3-diopter with 5" dia. IV-pivot base for clamp-on. Black.

No. 284LI104..... **$103.70**
No. 284LI035 13W Natural Light Fluorescent Tube **$7.65**

E. Hi-Lighting Magnifiers

The bulb of the Hi-Lighting Magnifier is positioned to furnish "incident" lighting that highlights flaws, imperfections, and other irregularities on the surface being inspected. The tube is located behind the lens. Includes 13W fluorescent tube, with 3-Diopter Lens. Color: Gray.

No. 284LI208 3 Diopter **$181.00**
No. 284LI220 5 Diopter **$323.00**

F. 16 Diopter Illuminated 4-Power Magnifier

For precise inspection of solder connections and other fine details! Provides 4-power magnification with a high quality crown-optical glass lens. Includes a 22W fluorescent tube with a focal length of 1.5". (Polycarbonate shields are available which protect user and tube). Full reach is 42". Universal clamp-on base. *Meets MIL-STD-2000.*

No. 284LI205 120 VAC, Black..... **$255.00**
No. 284IN4220 220 VAC, Black..... **$248.95**
No. 646MI032 22W Cool White Replacement Bulb..... **$9.75**

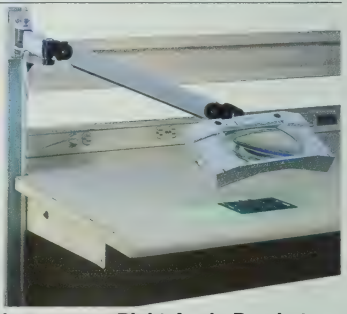
Stretch-View™ Wide View Magnifier

The rectangular magnifying lens "stretches" a 5" circular viewing area to 6.75"! This allows comfortable vision, reducing eye-strain, while increasing the surface area viewed or scanned, through a Crown-optical ground lens measuring 6.75" x 4.25". It's light is a powerful 18-watt compact fluorescent, providing 125 foot-candles at 15-inches above the work surface. Your choice of a Desk Base or Clamp-On Base. ***Five-Year Warranty.***

Gray, 3 Diopter, Clamp-On 40"
No. 284IN200 (Shown) **$314.50**
Gray, 3 Diopter, Desk Base 26"
No. 284IN100 ..... **$335.75**
Gray, 5 Diopter, Clamp-On 26"
No. 284IN150 ..... **$314.50**
No. 284IN035 18W Fluorescent Tube..... **$15.30**

Wave + Plus W-Arm

This ergonomically designed light eliminates the mounting footprint from work surface. Available with a 6" or 12" extruded aluminum segment, this light has a built-in mounting bracket that attaches directly to surfaces or workstation uprights. Choose the optional adapter bracket to fit your need. Color; Lt. Gray. **(USA)**



Wave+Plus W-6 with Standard Lenses
No. 516IN875 6" extruded metal section **$515.15**
Wave+Plus W-12 with Standard Lenses
No. 516IN876 12" extruded metal section..... **$372.25**
Wave+Plus W-6 with Anti-Reflective Lenses.
No. 516IN887 6" extruded metal section **$515.15**
Wave+Plus W-12 with Anti-Reflective Lenses.
No. 516IN788 12" extruded metal section **$522.65**

Shaft Adapter Bracket

Permits the product to be mounted in brackets (the mounting opening ID on these brackets should be .511 - .512).
No. 516AC320 ..... **$24.00**

Universal Bracket

Two mounting plates for attaching either side of a vertical upright on workstation. Comes with 4" bolts with wing nuts.
No. 516AC321 ..... **$24.00**

Right Angle Bracket

Designed for attaching to workstations with an internal vertical track on uprights. The overlapping slots of the bracket reach slots as deep as 2-5/8".
No. 516AC322 ..... **$18.80**

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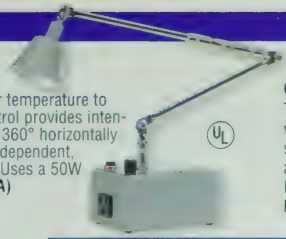
or 1-610-941-2400

Roxter Lamps

Precision Work Lamps



Designed for critical applications which require the ultimate in high intensity; color temperature to 3300°K. An infinitely variable dimmer control provides intensities up to 7000 Fc. Arm swivels through 360° horizontally and vertically, eliminating wire twist. An independent, three-wire AC outlet is built into the base. Uses a 50W halogen bulb (3350°K). Grey wrinkle. **(USA)**

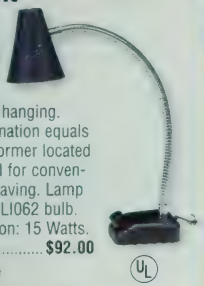
No. 686IN590 ..... **$210.00**

Clip-On Lite

This mini-watt spotlight clips to any ledge. Has low voltage and is energy saving–only 12 watts. Halogen spot beam measures 2" dia with a 5-1/2" shade, and a built-in transformer. Mini MR-11 bulb included. Black. **(USA)**

No. 686IN756 ..... **$80.00**

Utility Light



For factory, workshop and field service. Foot-long flexible arm. Magnetic base and rear hook for hanging. Hi-intensity illumination equals 100 watts. Transformer located at end of line cord for convenience and space saving. Lamp supplied with 686LI062 bulb. Power consumption: 15 Watts.

No. 686LI034 ..... **$92.00**

Replacement Bulb

No. 686LI062 ..... **$1.00/ea.**

Halogen Hi-Intensity Floating Arm Lamps

Put a spot of high-intensity light from a 20-watt halogen bulb exactly where and when you need it! **ENERGY-SAVING** 20W halogen bulb– all the light of a 60W bulb, uses only 1/5 current of a 100W bulb. More concentrated than incandescent and it's color is closer to natural daylight. 20W halogen lamp uses less energy and produces less heat. The bulb is rated at 2,000 hours. Bulb included. The 2-1/2" diameter head has a protective shield. **Model 284LI6930** (Screw clamp) one piece flexible arm can be bent, twisted and curled. 30" arm.

A. No. 284LI6930 ..... **$120.70**

DESK MODEL (24" Arm) Black

B. No. 284LI068 ..... **$164.90**

UNIVERSAL MODEL (34" Arm) Black

C. No. 284LI066 ..... **$146.20**

No. 284LI062 Bulb: used on halogen models only **$8.00**

Bevco Chairs

8000 Series Static Control (ESD)

Affordable ergonomic seating for your electronics applications. **Features:** Heavy-duty conductive fabric, surface resistivity of <10^6 ohms/sq; Pneumatic height adjustment with 360° swivel; Waterfall seat; Large, fully-adjustable back; Sturdy five-legged base with conductive glides and drop chain. Dimensions: Seat: 18"W x 17"D x 2.75" thick; Back: 16"W x 10"D x 2" thick. Wt.: 30 lbs. Specify Colors When Ordering: Black or Blue. ***(Lifetime Guarantee on pneumatic cylinder)***. **(USA)** *(Ask About Optional Casters, Chairs Come With Glides.)*

TT No.	Model	Height Adj.	Height w/Casters	Vertical Back Adj.	Horizontal Back Adj.	Tilt Seat	Tilt Back	Base Type	PRICE
190BE8000	8000	16" - 21"	17" - 22"	3"	1-1/2"	N/A	N/A	Polished Aluminum	$293.75
190BE8001	8001	16" - 21"	17" - 22"	6"	Tilt	4° Rearward 6° Forward	10° Forward 16° Backward	Polished Aluminum	$334.40
190BE820	8200	20" - 25"	21" - 26"	3"	1-1/2"	N/A	N/A	16 Gauge Tubular Steel	$290.20
190BE8201	8201	20" - 25"	21" - 26"	6"	Tilt	4° Rearward 6° Forward	10° Forward 16° Backward	16 Gauge Tubular Steel	$330.80
190BE8500	8500	23" - 33"	24" - 34"	3"	1-1/2"	N/A	N/A	Polished Aluminum	$342.30
190BE8501	8501	23" - 33"	24" - 34"	6"	Tilt	4° Rearward 6° Forward	10° Forward 16° Backward	Polished Aluminum	$383.70
190BE8600	8600	25" - 30"	26" - 31"	3"	1-1/2"	N/A	N/A	16 Gauge Tubular Steel	$292.30
190BE8601	8601	25" - 30"	26" - 31"	6"	Tilt	4° Rearward 6° Forward	10° Forward 16° Backward	16 Gauge Tubular Steel	$333.30

7000DCR Series Class 10 Cleanroom Chairs

All 7000CR Series Ergonomic Cleanroom Chairs come standard with pneumatic seat height adjustment, fully adjustable back and 360° swivel. Seat and backrest is skinned polyurethane in black color with ventilation ribs. *All chairs are MIL STD 209 Class 10 certified.* Dimensions: Seat: 19-1/2"W x 17-1/4"D x 1-3/4" thick; Back: 15-1/2"W x 14-1/2"D x 1" thick. ***(Lifetime Guarantee on pneumatic cylinder)***. **(USA)**
(Ask About Optional Casters, Chairs Come With Glides.)

TT No.	Model	Height Adj.	Height w/Casters	Vertical Back Adj.	Horizontal Back Adj.	Tilt Seat	Tilt Back	Base Type	PRICE
190BE700	7000 DCR	16" - 21"	17" - 22"	3-3/8"	2-3/4"	N/A	N/A	Reinforced Plastic	$270.20
190BE001	7001 DCR	16" - 21"	17" - 22"	6"	Tilt	6° Rearward 5° Forward	20° Forward 21° Backward	Reinforced Plastic	$359.30
190BE003	7200 DCR	18" - 23"	20" - 25"	3-3/8"	2-3/4"	N/A	N/A	16 Gauge Tubular Steel	$263.75
190BE004	7201 DCR	18" - 23"	20" - 25"	6"	Tilt	6° Rearward 5° Forward	20° Forward 21° Backward	16 Gauge Tubular Steel	$366.45
190BE006	7500 DCR	22" - 32"	23" - 33"	3-3/8"	2-3/4"	N/A	N/A	Reinforced Plastic	$304.00
190BE008	7501 DCR	22" - 32"	23" - 33"	6"	Tilt	6° Rearward 5° Forward	20° Forward 21° Backward	Reinforced Plastic	$402.10
190BE009	7600 DCR	23" - 28"	25" - 30"	3-3/8"	2-3/4"	N/A	N/A	16 Gauge Tubular Steel	$265.20
190BE011	7601 DCR	23" - 28"	25" - 30"	6"	Tilt	6° Rearward 5° Forward	20° Forward 21° Backward	16 Gauge Tubular Steel	$367.90

Bevco

Bevco

2000 Series Heavy-duty Ergonomic Seating

Economical seating for production line and industrial applications. Easy manual seat-height adjustment with 360° swivel. Waterfall seat design with high-density foam. Fully-adjustable contoured backrest for improved lumbar back support. DuPont Teflon Protected Olefin fabric resists pilling, fading or moisture. Sturdy, five-legged, welded 19 chrome footring. Specify your fabric colors and options when ordering. Colors: Black, Gray, Blue or Brown. **(USA)** *(Ask About Optional Casters.)*

TT No.	Model	Height Adj.	Height w/Casters	Vertical Back Adj.	Horizontal Back Adj.	Base Type	Footring	PRICE
190BE2004	2000/4	19" - 24"	21-1/2" to 26-1/2"	3"	5"	4 Leg Tubular	No	$118.40
190BE2205	2200/5	19" - 24"	21-1/2" to 26-1/2"	3"	5"	5 Leg Tubular	Yes	$144.25
190BE2305	2300/5	19" - 26"	21-1/2" to 28-1/2"	3"	5"	5 Leg Tubular	Yes	$150.40
190BE2605	2600/5	24" - 29"	26-1/2" to 31-1/2"	3"	5"	5 Leg Tubular	Yes	$148.60
190BE2705	2700/5	24 -31"	26-1/2" to 33-1/2"	3"	5"	5 Leg Tubular	Yes	$154.40

5000-Series Heavy-duty Ergonomic Seating

Intensive-use seating for assembly, laboratory and industrial applications. **Features:** Pneumatic height adjustment: 360° swivel with waterfall seat; Fully-adjustable backrest. Sturdy five-legged base with oversized glides. Heavy-duty DuPont Teflon Protected Olefin Fabric. Dimensions: Seat: 18"W x 17"D x 2.75" Thick; Back: 16"W x 10"H x 2" Thick. Wt.: 30 lbs. Specify Your Colors When Ordering: Black, Gray, Brown, Blue, Burgundy. ***(Lifetime Guarantee on Pneumatic Cylinder).*** **(USA)** *(Ask About Optional Casters.)*

TT No.	Model	Height Adj.	Height w/Casters	Vertical Back Adj.	Horizontal Back Adj.	Tilt		Base Type	PRICE
						Seat	Back		
190BE0500	5000	17" - 22"	18" - 23"	3" Range	1-1/2" Range	N/A	N/A	Reinforced Plastic	$193.00
190BE500	5001	17" - 22"	18" - 23"	6" Range	Tilt	4° Rearward 6° Forward	10° Inward 16° Backward	Reinforced Plastic	$199.60
190BE5200	5200	20" - 25"	21" - 26"	3" Range	1-1/2" Range	N/A	N/A	16 Gauge Tubular Steel	$199.60
190BE520	5201	20" - 25"	21" - 26"	6" Range	Tilt	4° Rearward 6° Forward	10° Inward 16° Backward	16 Gauge Tubular Steel	$234.80
190BE5600	5600	25" - 30"	26" - 31"	3" Range	1-1/2" Range	N/A	N/A	16 Gauge Tubular Steel	$203.10
190BE5601	5601	25" - 30"	26" - 31"	6" Range	Tilt	4° Rearward 6° Forward	10° Inward 16° Backward	16 Gauge Tubular Steel	$233.50

6000 Series Advanced Ergonomic Design

Improves total body support and physical comfort. Features independent tilt adjustment of seat and backrest. Add optional arms for maximum ergonomic benefit. **Features:** Pneumatic seat height; Sturdy black, scuff-resistant, glass reinforced, plastic base with heavy-duty slides; Comfortable seat, 20"W x 18"D x 3" thick with waterfall front evenly supports legs and thighs; Large backrest 16"W x 16"H x 2-1/2" thick, for back support. DuPont Teflon Protected Olefin. Fabric meets flame retardant standards. Colors available: Gray, Black, Burgundy, Blue, Brown. **(USA)** *(Ask About Optional Casters.)*

TT No.	Model	Height Adj.	Height w/Casters	Vertical Back Adj.	Horizontal Back Adj.	Tilt		Std. Adj. Footring	PRICE
						Seat	Back		
190BE600	6000	16" - 21"	17" - 22"	1-1/2" Range	1-1/2" Range	N/A	N/A	No	$183.30
190BE6001	6001	16" - 21"	17" - 22"	3" Range	Tilt	4° Rearward 6° Forward	10° Inward 16° Backward	No	$230.40
190BE603	6003	16-1/2" to 21-3/4"	17-1/2" to 22-3/4"	3" Range	Rocker Tilt	9° Rearward 1-1/2° Forward	4-1/2° Inward 27° Backward	No	$291.10
190BE6500	6500	23" - 33"	24" - 34"	1-1/2" Range	1-1/2" Tilt	N/A	N/A	Yes	$226.80
190BE6501	6501	23" - 33"	24" - 34"	3" Range	Tilt	4° Rearward 6° Forward	10° Inward 16° Forward	Yes	$273.90

7000 Series Industrial Seating

Designed for heavy-duty use in the busiest shop floor environments. **Features:** easy-to-clean polyurethane seat with waterfall design; Pneumatic seat-height adjustment with 360° swivel; Fully-adjustable, comfort-contour, lumbar-support polyurethane backrest; Sturdy, five-legged, plastic or tubular steel base with mushroom glides and chrome footring Dimensions: 18.5"W x 17"D x 1.5" Thick; Backrest: 16.5"W x 12.5"D x 1" thick. Backrest Available in Black only. ***(Lifetime Guarantee on Cylinder).*** **(USA)** *(Ask About Optional Casters.)*

TT No.	Model	Height Adj.	Height w/Casters	Vertical Back Adj.	Horizontal Back Adj.	Tilt		Base Type	PRICE
						Seat	Back		
190BE7000	7000	16" - 21"	17" - 22"	3-3/8"	2-3/4"	N/A	N/A	Reinforced Plastic	$161.55
190BE7001	7001	16" - 21"	17" - 22"	6"	Tilt	6° Rearward 5° Forward	20° Forward 21° Backward	Reinforced Plastic	$216.35
190BE7200	7200	18" - 23"	20" - 25"	3-3/8"	2-3/4"	N/A	N/A	16 Gauge Tubular Steel	$200.60
190BE7201	7201	18" - 23"	20" - 25"	6"	Tilt	6° Rearward 5° Forward	20° Forward 21° Backward	16 Gauge Tubular Steel	$262.75
190BE750	7500	22" - 32"	22" - 33"	3-3/8"	2-3/4"	N/A	N/A	Reinforced Plastic	$205.00
190BE7501	7501	22"-32"	23" - 33"	6"	Tilt	6° Rearward 5° Forward	20° Forward 21° Backward	Reinforced Plastic	$256.35
190BE7600	7600	23"-28"	25" - 30"	3-3/8"	2-3/4"	N/A	N/A	16 Gauge Tubular Steel	$202.00
190BE7601	7601	23 - 28"	25" - 30"	6"	Tilt	6° Rearward 5° Forward	20° Forward 21° Backward	16 Gauge Tubular Steel	$264.20

BioFit designs its standard industrial workplace seating for support, versatility and endurance. Standing on sturdy, five-legged bases, this traditional line uses modular construction to allow buyers to customize chairs with a variety of long-wearing seats, backrests and bases.
Color choices are available for the painted metal parts of the chairs. All include the Soft Touch pneumatic mechanism that makes adjusting the seat height a breeze. *15-Year Guarantee.*

Paint Finish
Chair models feature either a powder-coated paint finish or a chrome-plated metal finish. Chairs in the Ergonomic Standard Series are available with a paint finish. *Colors: 05-Silvervein; 06-Black*

Upholstery
BioFit's Ship Now! Program offers several upholstery choices:
684: Black vinyl • Microcon Blue vinyl
8260: Cabernet cloth • 7805: Dark sea cloth

Other Fabrics, Colors & Options Available – Call For Details!

1P-K Series ESD Chair (Non-Cleanroom)

Features chrome-plated metal parts, conductive 2" casters, drag chain and ESD-upholstery. Five leg, tubular base features an 18" diameter welded footring. The pneumatic cylinder has Class 4 pneumatic mech., 5.25" stroke. Concave upholstered seat is 18.5"W x 16.5"D x 3"T and has an internal seat board bumperguard. Backrest is 14.5"W x 9.5"H with extra lumbar support and a protective panel which wraps around the edges to protect from damage. ***15-Year Guarantee.***

TT No.	Height Adj.	Casters Glides	Height w/Casters	Vertical Back Adj.	Horizontal Back Adj.	ESD Fabric	Color	PRICE
127BE041	17" - 22-1/4"	Glides	–	3"	2"	Visco Wool	Navy	$399.50
127BE411	17" - 22-1/4"	Glides	–	3"	2"	Vinyl	Microcon Blue	$378.25
127BE0161	20-1/4" - 25-1/2"	Casters	22-1/4" - 27-1/2"	3"	2"	Visco Wool	Coal	$425.00
127BE061	20-1/4" - 25-1/2"	Casters	22-1/4 - 27-1/2	3"	2"	Visco Wool	Twilight Navy	$425.00
127BE611	20-1/4" - 25-1/2"	Casters	22-1/4" - 27-1/2"	3"	2"	Vinyl	Microcon Blue	$403.75
127BE064	21-3/4" - 27"	Casters	22-3/4" - 29"	3"	2"	Vinyl	Microcon Blue	$444.55

Others Heights, Fabrications, etc available – Ask for Details!

4V Series Class 1000 Cleanroom Chairs

These chairs offer the Soft Touch pneumatic mechanism for quick and easy seat-height adjustment. The chairs also swivel to permit easy side-to-side movement and feature: ergonomic upholstered seat with vinyl underwrap and filtered exhaust ports, 18-1/2"W x 17"D x 3"T; 4-way contour, 15-1/2"W backrest, 14-1/2"H with lumbar curve.
15-Year Guarantee. Not Available on Quick-ship program.

TT No.	Height Adj.	Casters Glides	Height w/Casters	Vertical Back Adj.	Horizontal Back Adj.	ESD Fabric	Color	PRICE
127BE057	16-3/4" - 22"	Casters	18-3/4"-24"	3"	2"	ESD Vinyl	Microcon Blue	$452.20
127BE123	20-1/4" - 25-1/2"	Glides	–	3"	2"	ESD Vinyl	Microcon Blue	$409.70

4V Series Standard Cloth/Non-Cleanroom Chairs *(Not Shown)*

The same chair (non-cleanroom) with powder coated finish metal parts. Features upholstered ergonomic seats and backrests and a tubular base.

TT No.	Height Adj.	Casters Glides	Height w/Casters	Vertical Back Adj.	Horizontal Back Adj.	ESD Fabric	Color	PRICE
127BE461	20-1/4" - 25-1/2"	Glides	–	3"	2"	Cloth	Dark Sea	$304.30

Others Heights, Fabrications, etc available – Ask for Details!

1Q & 1P Series Class 100 Cleanroom/ESD Chair

Features chrome-plated metal parts, patented Class 100 filtration system, conductive 2" soft-wheel ESD casters, drag chain and static dissipative vinyl. (Conductive glides available.) Five leg, tubular base features an 18" diameter welded footring. The pneumatic cylinder has Class 4 pneumatic mech., and a 5.25" stroke. Concave seat is 18.5"W x 16.5"D. Backrest is 14.5"W x 9.5"H with extra lumbar support and a plastic protective panel which wraps around the edges to protect from damage. Upholstery: microcon blue vinyl. ***15-Year Guarantee.***

TT No.	Height Adj.	Casters Glides	Height w/Casters	Vertical Back Adj.	Horizontal Back Adj.	ESD Fabric	Color	PRICE
127BE170	16-1/2" - 21-3/4"	Casters	18-1/2" - 23-3/4"	3"	2"	Vinyl	Microcon Blue	$440.30
127BE141	17" - 22-1/4"	Casters	19" - 24-1/4"	3"	2"	Vinyl	Microcon Blue	$451.35
127BE485	20-1/4" - 25-1/2"	Casters	22-1/4" - 27-1/2"	3"	2"	Vinyl	Microcon Blue	$455.60

Others Heights, Fabrications, etc available – Ask for Details!

BASIC FRAME COLORS
(OTHERS COLORS AVAILABLE– CALL!)

Ergonomic Workstation 2000

These modular-component workstations offer you total flexibility and feature a durable, long-lasting, baked-on, powder-coat finish. The 1.25" thick industrial work surface meets your most demanding applications. Your work surface height is adjustable to 30, and 36 inches — 64" support frames are standard. The heavy-duty bumper edging reduces the risk of chipping, breaking or cracking. Double-welded joints assure long-term station integrity. The standard color is Blue with White (Melamine) or Gray (ESD) laminate top; other enamel colors are available. Shipped FOB (Boston).

Single Sided Workstations

No. 664BE001	30" x 60" Stand-Alone Station	$491.00
No. 664BE002	30" x 60" Add-On Station	$423.00
No. 664BE003	30" x 60" ESD Stand-Alone Station	$615.00
No. 664BE004	30" x 60" ESD Add-On Station	$548.00
No. 664BE005	30" x 72" Stand-Alone Station	$513.00
No. 664BE006	30" x 72" Add-On Station	$446.00
No. 664BE007	30" x 72" ESD Stand-Alone Station	$654.00
No. 664BE008	30" x 72" ESD Add-On Station	$586.00

Double Sided Workstations

No. 664BE009	30" x 60" Double-Sided Station	$869.00
No. 664BE010	30" x 60" Double-Sided Add-On Station	$734.00
No. 664BE011	30" x 60" ESD Double-Sided Station	$1117.00
No. 664BE012	30 x 60 ESD Double-Sided Add-On Station	$983.00
No. 664BE013	30 x 72 Double-Sided Station	$906.00
No. 664BE014	30 x 72 Double-Sided Add-On Station	$772.00
No. 664BE015	30" x 72" ESD Double-Sided Station	$1188.00
No. 664BE016	30" x 72" ESD Double-Sided Add-On Station	$1053.00

Surge-Protected Power Distribution

A.	No. 664BE019	60" Power Bar	$108.00
A.	No. 664BE020	72" Power Bar	$114.00

Rails for Part Bins

B.	No.664BE021	60" Bin Rail	$28.00
B.	No. 664BE022	72" Bin Rail	$33.00

Shelving Systems

C.	No. 664BE029	60" Solid Metal Shelf	$95.00
C.	No. 664BE030	72" Solid Metal Shelf	$99.00
D.	No. 664BE031	60" Wire Shelf	$77.00
D.	No. 664BE032	72" Wire Shelf	$84.00
	No. 664BE423	60" Laminated Shelf 15" Deep	$122.00
	No. 664BE426	72" Laminated Shelf 15" Deep	$132.00

T8 Overhead Lighting Systems

E.	No. 664BE017	60" Electronic Ballast Light	$173.00
E.	No. 664BE018	72" Electronic Ballast Light	$89.00
	No. 664BE523	Under Shelf Light	$93.00

Drawer Units

F.	No. 664BE027	6" Stackable Drawer w/lock	$132.00
F.	No. 664BE028	12" Stackable Drawer w/lock	$161.00

Parts Bin Mobile Dock

G.	No. 664BE639	Bin Dock with Articulating Arm	$103.00

Monitor Arm & Keyboard Kits

H.	No. 664BE631	Monitor Tray with Double Arm	$132.00
H.	No. 664BE630	Monitor Tray with Single Arm	$101.00
H.	No. 664BE628	Keyboard Support Mounts to Tray	$22.00
	No. 664BE680	Fully Adjustable Keyboard Support	$124.00
	No. 664BE482	Fully Adjustable CPU Support	$126.00
	No. 664BE353	Document Holder 33"	$108.00
	No. 664BE0350	3 Diopter Magnifying Lamp	$313.00

Overhead Tool Rack

J.	No. 664BE343	60" Tool Rack with Trolley	$44.00
J.	No. 664BE346	72" Tool Rack with Trolley	$48.00
	No. 664BE357	Tool Balancer 3 lbs.	$66.00

Fabric Covered Tack Boards

K.	No. 664BE033	24" x 60" Fabric Covered Tack Board	$109.00
K.	No. 664BE034	24" x 72" Fabric Covered Tack Board	$118.00

Footrests

No. 664BE666	Adjustable Footrest 60" (2000 Only)	$68.00
No. 664BE667	Adjustable Footrest 72" (2000 Only)	$72.00

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

A. Memory Station

This easy to use electrically powered height adjustable station features four height settings that can be stored in memory. Provides effortless height adjustment from 28" - 45" with a 420lb capacity. Perfect for two-shift operation and for sitting or standing heights. ESD or standard laminate work surface available in 60" and 72" widths. An optional 48" tall support frame makes it possible to attach all standard accessories. **(USA)**

Description	Surface	60" Width	PRICE	72" Width	PRICE
Memory Station	Standard	664BE405	$1450.00	664BE035	$1480.00
Memory Station	ESD	664BE036	$1560.00	664BE037	$1590.00
Accessories					
No. 664BE540 (8540) 60" Tall Uprights (To Hold Accessories)					$58.00

B. RTW Table

Versatile workstation available in three standard widths: 48", 60" & 72" with either 30" or 36" depth. Cantilevered support leg offers greater operator comfort and full use of tabletop. Surface is made of 1-1/8" industrial grade particleboard, laminated top with protective bumper edge. An optional 48" tall support frame makes it possible to attach all of our standard accessories. Attractive powder coated epoxy with an abrasive resistant finish for longer lasting appearance. Surface height adjust from 30" to 36". **(USA)**

Description	Surface	48" Width	PRICE	60" Width	PRICE	72" Width	PRICE
30" Deep Top	Standard	664BE301	$335.00	664BE305	$350.00	664BE310	$375.00
30" Deep Top	ESD	664BE100	$434.00	664BE105	$469.00	664BE110	$520.00
36" Deep Top	Standard	664BE302	$345.00	664BE307	$365.00	664BE311	$390.00
36" Deep Top	ESD	664BE102	$454.00	664BE107	$490.00	664BE111	$536.00
Accessories							
No. 664BE540	60" Tall Uprights (To Hold Accessories)					$58.00	
No. 664BE318	48" Surface Mounted Power Strip (RTW Only)					$67.00	
No. 664BE507	60" Worktable Light (RTW Only)					$147.00	
No. 664BE0512	72" Worktable Light (RTW Only)					$163.00	
No. 664BE662	Tube Footrest 60" (RTW Only)					$48.00	
No. 664BE663	Tube Footrest 72" (RTW Only)					$50.00	

Monitor Arm

Ergonomic monitor arm features 3-way mounting for desk, wall or surface mounting. Capable of handling monitors up to 65 pounds, and will work with any existing workstation, table or bench and is designed for both factory and office environment use. Includes an adjustable gas cylinder for precise and secure. **(USA)**

No. 664BE625 ..... $169.00

Series T-1000 Heavy Duty Industrial Seating

The T-1000 series offers quality, durability, and ergonomic functions. These chairs feature independent seat and back tilt, plus a fully adjustable backrest. Three inches of high density foam on the seat provides you total support and comfort. Fabric colors include: Black, Gray, Blue, Brown and Burgundy.

TT No.	Height Adjustment	Vertical Back Adjustment	Tilt Seat	Tilt Back	PRICE
152BE1000	16.6" - 21"	2"	4° rearward 6° forward	10° inward 16° backward	$304.25
152BE1001	20" - 28"	2"	4° rearward 6° forward	10° inward 16° backward	$379.50
152BE1002	25" - 35"	2"	4° rearward 6° forward	10° inward 16° backward	$394.00

Series T-2000 ESD Seating

Tough ergonomic seating to accommodate your electronic sensitive environment. Features include: 2" conductive casters, independent seat and back tilt, back height adjustment. Waterfall seat with three inches of high-density foam. Conductive fabric colors include: Black, Gray and Blue.

TT No.	Height Adjustment	Vertical Back Adjustment	Tilt Seat	Tilt Back	PRICE
152BE2000	16.6" - 21"	2"	4° rearward 6° forward	10° inward 16° backward	$392.00
152BE2001	20" - 28"	2"	4° rearward 6° forward	10° inward 16° backward	$467.30
152BE2002	25" - 35"	2"	4° rearward 6° forward	10° inward 16° backward	$481.80

Series T-3000 Cleanroom Seating

All chairs are combined with fully ergonomic functions to enhance comfort and productivity, and meet class 100 cleanroom specifications. Available in Black or Blue vinyl.

TT No.	Height Adjustment	Vertical Back Adjustment	Tilt Seat	Tilt Back	PRICE
152BE3000	16.6" - 21"	2"	4° rearward 6° forward	10° inward 16° backward	$392.00
152BE3001	20" - 28"	2"	4° rearward 6° forward	10° inward 16° backward	$467.30
152BE3002	25" - 35"	2"	4° rearward 6° forward	10° inward 16° backward	$481.80

Series T-4000 ESD/Cleanroom Seating

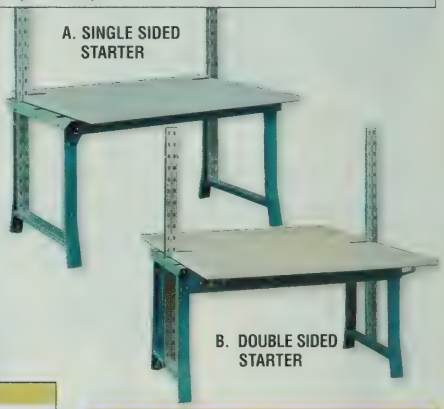
The combination of ESD and Class 100 Cleanroom makes the 4000 series the perfect fit for your most restrictive environment. This ergonomic chair features an adjustable seat and back tilt. Available in Black or Blue vinyl.

TT No.	Height Adjustment	Vertical Back Adjustment	Tilt Seat	Tilt Back	PRICE
152BE4000	16.6" - 21"	2"	4° rearward 6° forward	10° inward 16° backward	$436.25
152BE4001	20" - 28"	2"	4° rearward 6° forward	10° inward 16° backward	$511.50
152BE4002	25" -35"	2"	4° rearward 6° forward	10° inward 16° backward	$526.00

Kinatechnics System 1

• **Flexibility - a single-sided unit can be easily converted to double-sided**
• **Ergonomic - adjustable work height and options** • **Durability**
• **Connected in series, create a manufacturing line** • **One-Year Warranty**

The *SYSTEM 1* work surface is a 1-inch thick, high density, substrate, laminated with an almond-hue melamine; **supports a 1,000 pound evenly distributed load,** and 300 pounds at its edge. With the leg extension option, the work surface height is adjustable to 30, 33, or 36 inches, and has a 180° rolled front comfort edge. Durability and flexibility are derived from strong ergonomics. Prices shown are for units of one; color is light blue (metal), almond (laminate) top; allow 2 to 4 weeks for delivery; shipped FOB Factory (California) to your facility.



Stock Colors

Top | Drawer | Legs

A. Single-Sided Starter and Add-On

No. 655BE6702 36" x 60" - (Starter) $414.00
No. 655BE6712 36" x 60" - (Add-on) $329.00
No. 655BE6703 36" x 72" - (Starter) $428.00
No. 655BE6713 36" x 72" - (Add-on) $343.00
No. 655BE6707 36" x 60" - (Starter w/ESD top) .. $611.00
No. 655BE6717 36" x 60" - (Add-on w/ESD top) .. $525.00
No. 655BE6708 36" x 72" - (Starter w/ESD top) .. $664.00
No. 655BE6718 36" x 72" - (Add-on w/ESD top) .. $579.00

B. Double-Sided Starter and Add-On

No. 655BE6722 30" x 60" - (Starter) $536.00
No. 655BE6732 30" x 60" - (Add-on) $450.00
No. 655BE6723 30" x 72" - (Starter) $556.00
No. 655BE6733 30" x 72" - (Add-on) $471.00
No. 655BE6727 30" x 60" - (Starter w/ESD Top) $838.00
No. 655BE6737 30" x 60" - (Add-on w/ESD Top) $753.00
No. 655BE6728 30" x 72" - (Starter w/ESD Top) $915.00
No. 655BE6738 30" x 72" - (Add-on w/ESD Top) $828.00

C. Overhead Lighting - Optional

No. 655BE6182 60" Length - *(Single Sided)* $214.00
No. 655BE6183 72" Length - *(Single Sided)* $247.00
No. 655BE6185 60" Length - *(Double Sided)* $408.00
No. 655BE6186 72" Length - *(Double Sided)* $474.00

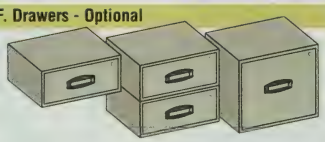
D. Electrical Strips - Optional (UL Approved)

No. 655BE6282 60" 10 outlet $103.00
No. 655BE6283 72" 10 outlet $105.00

E. Footrest Tubes and Shelves - Optional

No. 655BE6222 60" Footrest tube $42.00
No. 655BE6223 72" Footrest tube $50.00
No. 655BE6232 60" Single-sided Footrest shelf $59.00
No. 655BE6233 72" Single-sided Footrest shelf $71.00
No. 655BE6235 60" Double-sided Footrest shelf .. $61.00
No. 655BE6236 72" Double-sided Footrest shelf .. $73.00

F. Drawers - Optional



No. 655BE6171 6" - Single drawer $107.00
No. 655BE6175 (2) - 6" - Single drawers $173.00
No. 655BE6173 12" - File drawer $125.00
No. 655BE6172 Single-sided drawer bracket kit* $24.00
** No. 655BE6172 Must be ordered with above drawers when mounting them to a System1 single-sided station!*

Solid Shelving - Optional - (Not Shown)

No. 655BE6112 15" x 60" - Standard Shelf $107.00
No. 655BE6113 15" x 72" - Standard Shelf $111.00
No. 655BE6122 15" x 60" - ESD Shelf $195.00
No. 655BE6123 15" x 72" - ESD Shelf $209.00

Leg Extender - Optional - (Not Shown)

Raise bench from 30" to 36", in 2" increments.
No. 655BE6009 Set of two $22.00

G. Bin Rails - Optional

No. 655BE6252 60" Bin rail $21.00
No. 655BE6253 72" Bin rail $26.00

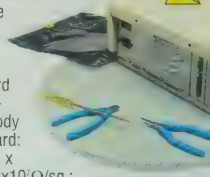
H. Three Tier Conductive Bin Carousel - Optional

No. 655BE6651 Four-sided, conductive bin carousel $171.00
No. 655BE6653 Conductive bin set (set of three) Replacements $22.00

J. Wire Shelves - Brackets Included - Optional

No. 655BE6202 12" x 60" - Straight Shelf $53.00
No. 655BE6203 12" x 72" - Straight Shelf $62.00
No. 655BE6205 12" x 60" - Sloping Shelf $54.00
No. 655BE6206 12" x 72" - Sloping Shelf $63.00
No. 655BE6212 14" x 60" - Straight Shelf $60.00
No. 655BE6213 14" x 72" - Straight Shelf $69.00
No. 655BE6215 14" x 60" - Sloping Shelf $61.00
No. 655BE6216 14" x 72" - Sloping Shelf $70.00

Techni-Stat® Service Table



The ESD Turntable is a versatile turning disc with a wide variety of practical and specialized applications. Especially useful where heavy or awkward objects need to be handled using minimum body exertion. **Specs:** Standard: EN 100015-1; Range: 5 x $10^6\Omega$/sq.; Resistance: 1x$10^7\Omega$/sq.; surface material: Conductive rubber.

12"W x 1/2"H
No. 358PR300 ..... $75.00
15"W x 1/2"H
No. 358PR380 ..... $85.00
19-3/4"W x 3/8"H
No. 358PR500 ..... $120.00

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

EZE Workmaster "Quick-Ship" Work Stations

- *Two heavy-gauge steel channels bolt to two end leg sections*
- *Height is adjustable from 30" to 36" on 2" increments*
- *Foot Rest*
- *180-degree, rolled-front, "comfort" edge that comes with all work surfaces*
- *Total top thickness is 1-1/4", rated capacity is 1000 lbs. (evenly distributed)*
- *Other sizes and styles are available*
- ***One-Year Warranty***

EZE Workmaster Starter Bench

No. 655BE0002 30" x 60" Regular-116 lbs.. **$349.00**
No. 655BE0022 30" x 60" ESD **$486.00**
No. 655BE0003 30" x 72" Regular-135 lbs.. **$361.00**
No. 655BE0023 30" x 72" ESD **$522.00**
No. 655BE0013 36" x 72" Regular-147 lbs.. **$366.00**
No. 655BE0033 36" x 72" ESD..... **$536.00**
ESD Tops include brass ground lug.

Instrument Shelf with Risers

Box risers come with a 3" high support running horizontally below the shelf. The shelf top is standard 1-1/4" thick. The shelf is 15"D, 1-1/4"T x Length of bench.

Regular Riser Panel - with Shelf

No. 655BE0522 15" x 60" Regular-65 lbs .. **$140.00**
No. 655BE0532 15" x 60" ESD-65 lbs **$221.00**
No. 655BE0523 15" x 72" Regular-74 lbs... **$147.00**
No. 655BE0533 15" x 72" ESD-74 lbs..... **$244.00**

14 Outlet Electrical Riser-Panel Set

Has an interconnected three wire system. The circuit is terminated with a 14/3 power cord. Pilot light, switch and a 15A breaker are included. 1 panel has 4 duplex outlets; 1 panel has 3 duplex outlets & switch.

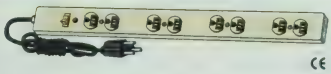
No. 655BE661 15 lbs.... **$170.00**

Drawers With Locks

Can be hung on either side.

No. 655BE0211 Single Drawer-22 lbs..... **$121.00**
No. 655BE0212 Double Drawer-34 lbs.... **$180.00**
No. 655BE0214 File Drawer-30 lbs..... **$139.00**

Electrical Options Powerway - Electrical



UL listed, these electrical strips cone standard with an 8 foot cord and either 8 outlet (48") or 10 outlets 60" & 72"). Each electrical strip comes with it's own mounting brackets. When ordering an electrical strip for a bench with an instrument shelf or uprights on it, order the electrical strip one size smaller than the bench.

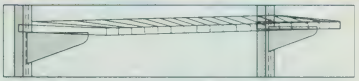
No. 655BE0682 48" long-6 lbs..... **$97.00**
No. 655BE0683 60" long-7 lbs..... **$103.00**
No. 655BE0684 60" long-7 lbs..... **$105.00**

Uprights

Bolts to the work surface or instrument shelf top and provides mounting for shelves and lights. Supplied in pairs, 42" high for use on bench top, 21" high for use on instrument shelf.

No. 655BE522
21" Long-5 lbs..... **$58.00**
No. 655BE601 42" Long-10 lbs **$87.00**

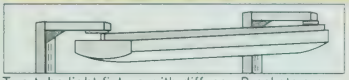
Wire Shelving



Shelf includes two, three-position, adjustable brackets, mounts to the uprights. 12" Deep.

No. 655BE0555 60"-14 lbs **$57.00**
No. 655BE0556 72"-15 lbs **$64.00**

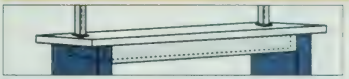
Overhead Light



Two tube light fixture with diffuser. Brackets are provided. 48" T-8 Fluorescent Tubes included. 24 lbs.

No. 655BE712 60" Light..... **$164.00**
No. 655BE713 72" Light **$167.00**

Under Shelf Light - 36"



Includes an on/off switch and power cord *Tube included.*

No. 655BE719 12 lbs **$82.00**

ORDERING INFORMATION:

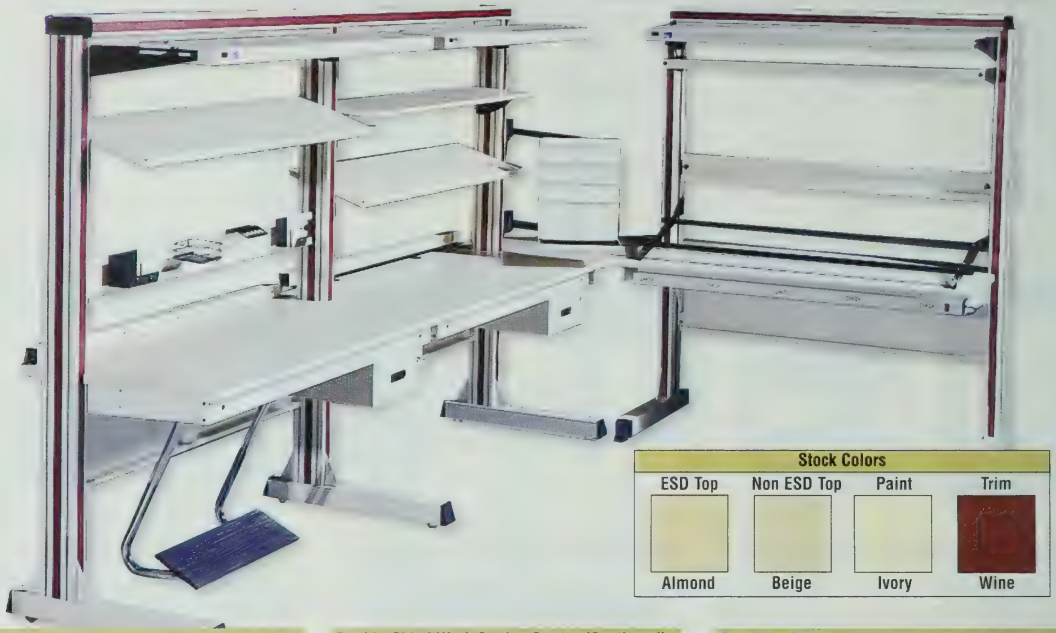
Order part number to identify each component. Use this number when ordering any workbench or workbench option. For any non-standard or special items, please contact Techni-Tool for part numbers, pricing & delivery.

1. The *EZE WORKMASTER* models listed normally ship within 48 hours*
2. 48-hour-ship benches have blue frames and white laminate tops only*
3. Sizes not listed are available at normal delivery schedule*

Please Note: Delivery subject to parts availability

Spacestation

Work surfaces, lights, shelves and other accessories are all adjustable along the "track-like" grooves that are built into each upright. The SPACESTATION double-sided station comes with independently adjustable work surfaces. **Allow 6 to 8 weeks for delivery. Shipped FOB factory (California) to your facility.**



Work Surface & Frame Combinations

All work surfaces come standard with a 180° rolled front "comfort" edge and a modesty/support panel.

Single-Sided Starter and Add-Ons

Includes: Surface, frames, uprights and utility channel. Regular

Single-Sided Starter

No. 655BE921 30" x 48" **$786.00**
No. 655BE922 30" x 60" **$810.00**
No. 655BE923 30" x 72" **$835.00**

Single-Sided Add-On

Includes: Surface, one upright, frame and utility channel.

No. 655BE931 30" x 48" **$607.00**
No. 655BE932 30" x 60" **$630.00**
No. 655BE993 30" x 72" **$656.00**

ESD Version Single-Sided Starter

No. 655BE961 30" x 48" **$898.00**
No. 655BE962 30" x 60" **$947.00**
No. 655BE963 30" x 72" **$996.00**

ESD Version Single-Sided Add-On

No. 655BE971 30" x 48" **$719.00**
No. 655BE972 30" x 60" **$767.00**
No. 655BE973 30" x 72" **$817.00**

Double-Sided Work Station Starter

Includes: Two surfaces, frame, uprights and utility channel.

Double-Sided Work Starter

No. 655BE910 30" x 48" D.S. Starter **$1069.00**
No. 655BE902 30" x 60" D.S. Starter **$1097.00**
No. 655BE903 30" x 72" D.S. Starter **$1148.00**

Double-Sided Work Station Starter (Continued)

Double-Sided Add-On

Includes: Two Surfaces, One upright, Frame and utility channel.

No. 655BE919 30" x 48" D.S Add-On **$877.00**
No. 655BE912 30" x 60" D.S Add-On **$904.00**
No. 655BE913 30" x 72" D.S Add-On **$956.00**

ESD Version Double Sided Starter

No. 655BE941 30" x 48" DSS **$1292.00**
No. 655BE942 30" x 60" DSS **$1371.00**
No. 655BE943 30" x 72" DSS **$1493.00**

ESD Double-Sided Add-On

No. 655BE951 30" x 48" ESD S.S Add-On **$1099.00**
No. 655BE952 30" x 60" ESD S.S Add-On **$1178.00**
No. 655BE953 30" x 48" ESD S.S Add-On **$1279.00**

T8 Overhead Light System

Attaches to the up-right. The light comes with a 24" long power cord and front mounted on/off switch.

No. 655BE2131 48", Ivory **$222.00**
No. 655BE2132 60", Ivory **$229.00**
No. 655BE2133 72", Ivory **$239.00**

Laminated Steel Shelving with Lip

14" deep, Capacity is 100 lbs. distributed weight.

No. 655BE9609 48", Ivory **$97.00**
No. 655BE9610 60", Ivory **$104.00**
No. 655BE9611 72", Ivory **$111.00**

Electrical Options

UL listed, these electrical strips come standard with an 8 foot cord and either 8 outlets (48") or 10 outlets (60" & 72"). When ordering an electrical strip for a bench with an instrument shelf or uprights on it, order the electrical strip one size smaller than the bench.

No. 655BE0682 48" Long-6 lbs **$97.00**
No. 655BE0683 60" Long-7 lbs **$103.00**
No. 655BE0684 72" Long-8 lbs **$105.00**

Stock Bin Rack

Adjustable in height and has two bin rails which will accept most clip on parts bins.

No. 655BE2211 48" **$44.00**
No. 655BE2212 60" **$47.00**
No. 655BE2213 72" **$52.00**

Drawer Options with Locks

Drawers are 20" front to back.

No. 655BE211 Single Drawer, 6" deep. **$121.00**
No. 655BE212 Double Drawer, 6" deep. .. **$180.00**
No. 655BE214 File Drawer, 12" deep **$139.00**

Corner Top

Single units can be joined to form "L" shaped configurations by ordering a corner top.
Double-sided available - ***Call for Pricing.***

Slide Rail System-For Work Surface

No. 655BE2221 48" **$99.00**
No. 655BE2222 60" **$104.00**
No. 655BE2223 72" **$109.00**

Overhead Trolley System *(For Power Tools)*

Allows overhead air to be moved the length of the workstation.

No. 655BE2311 48" **$95.00**
No. 655BE2312 60" **$103.00**
No. 655BE2313 72" **$110.00**

Ergonomic Footrest

Attaches to the work bench. Adjustable.

No. 655BE2121 48" footrest **$54.00**
No. 655BE2122 60" footrest **$62.00**
No. 655BE123 72" footrest **$69.00**
No. 655BE2111 Pan, footrest **$41.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

TECHNI-STAT

What is Techni-Stat®?

Techni-Stat®, Techni-Tool's brand of static control products, are manufactured for Techni-Tool® by leading manufacturers in the static control industry... probably some of the same ones you currently use now!

Save Money – Not Quality!

Techni-Stat® products are proven for quality, consistency and traceability...like our bags-made only from *National Metalizing Film* on machines designed and used only to produce static control bags.

ONLY 39.95

Techni-Stat® Field Service Kit

The new **Techni-Stat®** Field Service Kit is designed for the removal of static charges in the workplace as well as the field. This new vinyl material is a Tri-layer laminate that has been thoroughly tested and proven in countless locations and conditions. The three layers allow dangerous high-potential charges to be dissipated at a rate that removes these charges within prescribed safe limits. The 24"L x 24"W distinct red color mat has two pockets measuring 12" x 8" each. The **Techni-Stat®** Ground Strap and adjustable wrist strap are included in the compact package that folds and fits right into your tool kit. **Specs: 40 mil thickness; 3 Layers; Surface Resistivity: Top Layer 108-109; Middle Layer-Conductive 104; Bottom Layer 108-109; 1/8" Connecting Snaps; Wrist and ground strap included. (USA)**

No. 205ST010 ESD Red Mat **$39.95**

Pocket Field Service Kit

New!

This 15" x 20" Field Service Kit mat has a surface resistivity of 10^8 - 10^6 Ω/sq. and designed with one pocket. Has an adjustable wrist strap and two lightweight coil ground cords at 8' x 10'. **(USA)**

No. 205ST017 ..... **$34.00**

Hook & Loop Wrist Strap

Designed for the electronic assembly area this Hook & Loop Wrist Strap has a quick and easy adjustment. Has 1" wide material with sewn in conductive material. 6' coil with a 1/4" snap.

No. 205ST927 Black **$8.25**
No. 205ST926 Blue **$8.25**

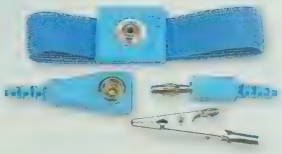
Fixed Wrist Strap

Stretch Band, 6' coil cord

No. 691ST078 S **$13.55**
No. 691ST105 M **$7.00**
No. 691ST053 L **$13.50**

Stretch Band, 12' coil cord

No. 691ST059 S **$13.20**
No. 691ST103 M **$7.00**
No. 691ST060 L **$13.20**



Stat-Gard™ Grounding System

A static prevention method that checks the ground circuit first before use as a drain for static charges. Consists of a 3 wire grounding plug with neon lamp indicators, a highly conductive wrist strap (med.) & a flexible 10' lead set with built-in 1MΩ resistor. 125V/0.6W.

Plug/Strap/Lead
No. 462ST6146 ..... **$54.95**

Plug Only
No. 462TE038 ..... **$28.85**

Blue Soft Comfort Band Adjustable Wrist Strap

When comfort is important this wrist strap will fit your needs. It is made from a soft blue material that expands when you move and its 5/8" conductive surface provides a superior contact area for a safe discharge of static. Features: 1/4" snap; Stainless steel back plate; 1MΩ resistor; 6' coil strap.

No. 205ST910 ..... **$11.90**

Techni-Stat® Disposable Wrist Strap

Ideal alternative when temporary ESD protection is needed. Designed to be a disposable or limited use wrist strap only. Always open bag away form work area. Slip wrist strap loop over hand and pull snugly around wrist. Attach alligator clip to a suitable ground. **Specs:** 3 layer navy dissipative vinyl; Resistance to ground: 1 x 10^6Ω - 1 x 10^8Ω; Thickness: 0.030 in; Clip: Alligator; Width: 1/4";36" OAL. **(USA)**

No. 205ST082 ..... **$1.50**

One Size Quik-Fit™ Wrist Strap

Adjustable Velcro®-close conductive wrist strap with vinyl backing. Includes a 1 MΩ resistor and a 6' coil cord with combo banana jack/alligator clip. 1/8" snap. **(USA)**

No. 691ST056 ..... **$14.00**

Strap only
No. 205ST094 ..... **$5.25**

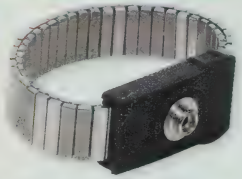
TECHNI-STAT

No Doubt Wrist Strap Set

Plugs directly into wall outlets. Two insulative AC pins and round grounding pin complete ground path. Cord features 1 MΩ built-in resistor, strain relief and 6' cord **(USA)**

No. 691ST095 ..... **$19.75**

Prices in this catalog are effective January 1, 2001. While we attempt to hold prices, we cannot control when our vendors increase prices.
We reserve the right to correct misprints.



Clean Room Version

Clean Room Flexible Adjustable Wrist Strap

This stainless steel, adjustable wrist strap meets or exceeds EOS/ESD standards–cleaned and double-bagged for cleanroom Class 100. Excellent for use in production, field service and ESD-sensitive areas.

6' coil wire
No. 691ST356 ..... $18.95

12' coil wire
No. 691ST351 ..... $19.95

TECHNI-STAT

ESD Flexible Wrist Strap

These ESD wrist straps are designed for clean rooms or laminar flow areas. The expansion band has a stainless steel conductive interior and a coated, insulative exterior for stray charge protection. The flexible, non-allergenic wrist strap is easy to clean, adjustable to any size wrist and has a molded-in 1/4 Wt. 1 MΩ resistor. Includes 6 ft. super-flex coil wire with banana jack and alligator clip. **(USA)**

Adjustable, flexible watch band w/12' coil wire

No. 691ST066 Black $16.95
No. 691ST205 Dk. Blue $16.95
No. 691ST208 Lt. Blue $16.95
No. 691ST206 Cranberry $16.95
No. 691ST207 Green $16.95
No. 691ST212 Red $16.95
No. 691ST213 Royal Blue $16.95

Adjustable, flexible watch band w/6' coil wire

No. 691ST064 Black $15.25
No. 691ST200 Dk. Blue $15.25
No. 691ST204 Lt. Blue..... $15.25
No. 691ST202 Cranberry..... $15.25
No. 691ST203 Green $15.25
No. 691ST209 Red $15.25
No. 691ST211 Royal Blue $15.25

Adjusts from Small to Large

Techni-Stat® Comfort-Fit Adjustable Elastic Wrist Strap

These top of the line adjustable elastic wrist straps is conductive with 5/8" conductive fiber inner-surface 10^3 MΩ/sq. This design provides the performance and reliability of a metal band, with the comfort of cloth. **(USA)**

No. 691ST058 6' Coil Cord, 1/8" Snap $6.75
No. 205ST098 12' Coil Cord, 1/8" Snap $14.25

Strap Only, No Cord

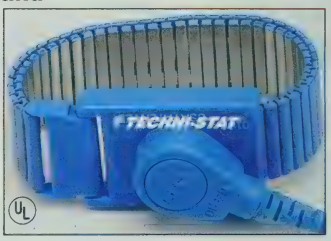
No. 205ST103 1/8" Snap $4.95
No. 205ST104 1/4" Snap $4.95

Band Only - No Coil Cord

TECHNI-STAT

Techni-Stat® Ergoband® Adjustable Metal Wrist Band

TECHNI-STAT



A patented linking system enables you to adjust the strap to fit any wrist size. The band is 130mm long and can be easily enlarged using one or more of the five 10mm nylon expansion links that come with the wrist band. Metal parts are made of quality stainless steel coated with an oven-baked epoxy. Includes wrist strap, 6' coil wire, expansion clips and 1 MΩ resistor. *Meets Mil-Spec.* **(USA)**

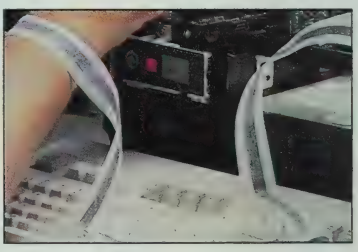
No. 734ST006 ..... $16.75

Techni-Stat® Lightweight Comfort-Fit

Same great band at a fraction of the weight. 10^2Ω/sq. 1MΩ resistor and stainless steel back plate. **(USA)**

No. 205ST088 6 1/8" Snap $11.95
No. 205ST090 10' 1/8" Snap $13.95

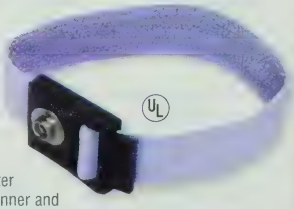
Techni-Stat® Disposable Wrist Strap



Constructed from 3M hypo-allergenic adhesives and non-woven fabrics. The self-sticking copper foil end adheres to any convenient electrical ground and drains static from the body. The flexible 4' strap provides freedom of movement.

No. 780ST2209..... $9.90 10/Pk.

ECONO Cloth Wrist Straps



The ECONO fabric adjustable wrist strap incorporates continuous strands of highly conductive silver-coated nylon monofilament placed on the underside of the non-conductive nylon yarn. This means that a full 80% of the conductive threads contact the skin of the wearer, ensuring maximum conductivity and the most reliable path the ground.

Specifications: Electrical Properties: Outer band has insulation resistance between inner and outer surfaces of strap is greater than 1000 megaohms at 500 V DC. Inner band: 160Ω; Elasticity: Elastic Ration: 2.5:1; Snap Sizes: 4mm and 7mm. Non-rusting, tested to *MIL STD 202 Method 101.* **(USA)**

Blue/Black Strap Only
No. 679ST027 (7mm snap)..... $3.25

Blue/Black Strap with 12' Coil Cord
No. 679ST124 (4mm snap)..... $7.65
No. 679ST112 (7mm snap)..... $7.65

Blue/Black Strap with 6' Coil Cord
No. 679ST002 (7mm snap)..... $6.65

ESD Symbol: Know the Difference?

ESD protective symbol

ESD susceptibility symbol

Ever wonder what the difference is between the two symbols above. Both mean very different things. The 3/4 arc encircling the triangle-reaching-hand signifies that the item provides a Faraday Cage or ESD protection for static susceptible assemblies and devices.

The symbol with the horizontal slash through the reaching hand signifies the device is ESD sensitive and should be handled with caution. It is used on products that are safe to use around static sensitive components and devices and are specifically designed to prevent a static event.

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Heel & Toe Grounders

Techni-Stat® Removable Tab Heel Grounder

This dual layer constriction strap has a non-marking inner surface and conductive outer layer for long wear. The 18" conductive removable tab provides a safe static discharge to ground. **Specs:** Non-marking rubber inside; Conductive rubber outside: $2x10^8\Omega$ - $6x10^7\Omega$; 18" conductive gray ribbon: $1x10^4\Omega$; Cup design; Charge delay: <0.01 sec.; $2x10^6\Omega$ - $1x10^7\Omega$.. **(USA)**

No. 205ST084 ..... **$6.75**

Red Hi-Visibility Heel Grounder

New!

This easy to spot, hook and loop fastening system has stretch Velcro for comfort. The reversible cup design has a non-marking interior, and a red one 5" elastic. Has an 18" conductive tab with a 1/5", and a built in $1M\Omega$ resistor for better floor contact. **(USA)**

No. 205ST086 ..... **$6.75**

D-Ring Heel Grounder

New!

Where cost is important, and quality counts this D-Ring Heel Grounder is for you. Has a non-marking interior with an elastic D-Ring area, with 18" conductive tape and 1.5" cup 2-layer rubber. Meets DOD handbook 263A standards. $1M\Omega$ resistor. **(USA)**

No. 205ST528 Blue **$8.60**

No. 205ST529 Red **$8.60**

Techni-Stat® E. Z. Close™ Economy Heal Grounder

E. Z. Close is your low-cost logical choice heel grounders. The premium grade conductive rubber is highly abrasion and wear resistant. The Velcro® fastening system is adjustable and comfortable. Will not mark shoes. Charge decay: less than 0.01 sec.; 2.4 x 10 - 1 x $10^8\Omega$.. **(USA)**.

No. 205ST300 ..... **$7.65**

Techni-Stat® Foot & Heel Grounders

These versatile heel grounders have a specially- designed, 1-1/2", dual-layered cup construction for superior floor contact. They feature a durable, conductive rubber .060" thick on the outside and non-marking rubber inside and non-stretch hook and loop closure. Decay (<.01). Conductivity: 8 x 10^7 Ω/sq. Conforms to *ESD and DOD-HDBK-263A*. **(USA)**

Techni-Stat® Premium Toe Grounder

Use with shoes where heel grounders are impractical. Premium grade conductive rubber is highly abrasion and wear resistant. Will not mark shoes. Charge decay: less than 0.01 sec. RTG: $1M\Omega - 1.2^7\Omega \times 10^7\Omega$, $2M\Omega - 2.1 \times 10^7\Omega$.. **(USA)**

No. 205ST300 ..... **$7.65**

Toe Grounder With $1M\Omega$ Resistor
No. 234ST702 ..... **$0**

Toe Grounder With $2M\Omega$ Resistor
No. 205ST106 ..... **$7.95**

Sole Grounder With $1M\Omega$ Resistor
No. 205ST789 ..... **$15.25**

Non-Marking Toe Grounder

New!

This non-marking toe grounder has adjustable comfort stretch Velcro with a non-marking interior. Has a built in $1M\Omega$ resistor with a conductive tab and 1.5" cup 2-layer rubber. Meets DOD 263A standards. **(USA)**

No. 205ST752 ..... **$8.80**

Snap & Loc Heel Grounder

New!

These Snap & Lock Heel Grounders will not snag your clothes. The reversible interior has a non-marking interior with an 18" conductive tab and 1.5" cup. **(USA)**

No. 205ST525 $1M\Omega$ Resistor..... **$7.30**

No. 205ST526 No Resistor..... **$7.30**

No. 205ST527 $2M\Omega$ Resistor..... **$7.30**

Non-Marking Heel Grounder/STD

New!

Ideal for your cleanroom this Non-Marking Heel Grounder/STD will not mark floors. Has stretch Velcro for comfort with non-marking rubber. The reversible cup design has an 18" conductive tab and 1.5" cup. $1M\Omega$ resistor. **(USA)**

No. 205ST757 Heel Grounder **$9.20**

No. 205ST752 Toe Grounder..... **$8.80**

Standard Sole & Heel Full Coverage Grounder

New!

This $1M\Omega$ grounder was designed with a heel and toe grounder in one unit. Has adjustable stretch Velcro for comfort with a non-marking interior. The wide contact area has an 18" conductive tab with a built-in resistor. Meets DOD 263A standards. **(USA)**

No. 205ST507 Large Sole **$12.00**

No. 205ST506 Medium Sole **$11.65**

No. 205ST505 Small Sole **$11.55**

Heel Grounder With No Resistor

No. 205ST100 Non-Stretch Strap **$6.50**

No. 205ST102 Stretch Strap..... **$6.50**

Heel Grounder With 2 $M\Omega$ Resistor

No. 205ST402 Non-Stretch Strap.. **$6.50**

No. 205ST302 Stretch Strap **$6.50**

New!

Disposable Heel Grounder

This disposable heel grounder easily fits over your shoe and provides a large contact surface for a more reliable ground path. Once it becomes frayed simply dispose it. **(USA)**

No. 691ST104 ..... **$1.10**/Each

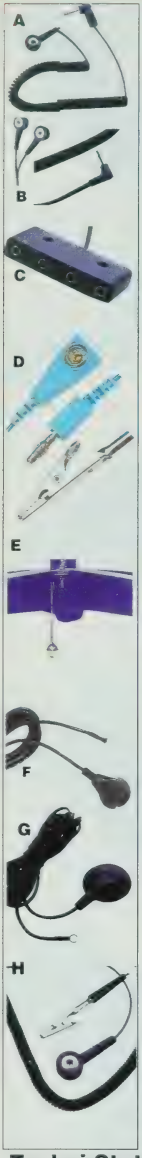
Disposable Heel Protector

This disposable heel protector simply attaches to your shoe quickly and easily. The width of the grounding area provides a large contact surface for a more reliable ground path and good floor contact. **(USA)**

No. 691ST108 (Not shown) **$24.85**

Techni-Stat® Grounding Systems Cord & Connectors

TECHNI-STAT



A. 90° Angle Coil Cords
This angle coil cord features a 90° mounting with a 1MΩ resistora 1/8" (3mm) snap. **(USA)**
No. 205ST118 6' coil **$8.65**
No. 205ST128 12' coil **$10.45**

B. Dual Coil Cord
This 10' long dual coil cord has a monojack and a 1MΩ resistor with a 1/8" (3mm) Snap. **(USA)**
No. 205ST184 ..... **$13.45**

C. Quad Common Point Ground
Two screw holes for easy attachment. Provides four grounding points under the bench. 10' long wire and no resistor. **(USA)**
No. 205ST704 ..... **$8.95**

D. Ground Wire - 1/4" (7mm)
Straight grounding wire comes in lengths of 2' or 5'. Molded with a 1/4" (7mm) snap to attach to table or floor mat and eyelet terminal for connection to grounding path. **(USA)**
No. 691ST107 2' Wire..... **$9.00**
No. 691ST710 5' Wire..... **$4.70**
Single Banana Jack
No. 247CN001 ..... **$12.15**
Double Banana Jack
No. 247CN002 ..... **$19.00**

E. Grounding System for Standard Carts
Grounding system for solid shelf carts, chairs or other mobile equipment. All stainless components. Stainless Steel 1/2" ground ball and hardware. **(USA)**
No. 247ST011 ..... **$19.35**
Grounding System for Wire Carts
Grounding system for wire shelf carts or equipment. All stainless components. Stainless Steel 1/2" ground ball and hardware. **(USA)**
No. 247ST012 ..... **$27.30**

F. Common Point Grounds
Two banana jacks for wrist straps connected directly to ground without resistors; has black wire. 3/8" (10mm) male snap has a 1MΩ resistor in series. **(USA)**
No. 234ST210 ..... **$11.75**

G. Floor Mat Ground
Designed with a molded dome cap to reduce tripping and chairs getting snagged. **Specs:** Molded 3/8" (10mm) male snap; #10 ring terminal; 10' long wire; no resistor.
No. 205ST150 ..... **$8.50**

H. Ground Cords
A complete line of high quality coil straight wire and ground cords. Excellent coil retention and non-tangling cords are made from high quality polyurethane. Each coil cord has seven strand tinsel wires with Dupont Devlar and a 1MΩ resistor. Includes combination alligator banana plug end. **(USA)**
Standard Coil Cords With 1/4" (7mm) Snap
No. 691AC1001 6' Cord **$6.10**
No. 691ST002 12' Cord **$8.20**

J. Grounding Cord with Ring Terminal
No. 691ST1072 10' Wire **$5.45**

K. Universal Dual Grounding Block
1MΩ resistance includes 8' ground wire with small terminal on end. Bench Mount version includes two screws to attach under bench or top mount.
K. No. 691ST001 Top Mount 7mm snap..... **$12.65**
No. 691ST003 Top Mount 10mm snap **$12.65**
L. No. 691ST004 Bench mount, no snap **$11.75**

M.Standard Coil Cords With 1/8" (3mm) Snap
No. 205ST004 6' Cord **$7.50**
No. 205ST005 10' Cord **$8.25**
No. 205ST006 12' Cord **$8.25**

Lightweight Coil Cord With 1/8" (3mm snap)
No. 205ST016 10' Cord **$9.50**

N. Straight Wire Cord – 1/4" (7mm) Snap & Eyelet Ground Terminal
No. 691ST710 5' Cord **$4.70**
No. 691ST1072 10' Cord **$5.45**

O. Snagless
Under Bench Ground won't snag clothes. Point bench ground is made of strong ABS plastic. When secured to underside of bench, no open terminals are exposed. Comes with two standard yellow banana jacks and 15' ground wire and #10 ring terminal at other end.
No. 205ST007 ..... **$11.75**

P. 3/8" (10mm) Snaps with Rivets
These 3/8" (10mm) snaps with rivet are the best way to ground work mats. 100/bag.
No. 205AC848 Female Snaps **$15.25**
No. 205AC849 Male Snaps **$13.45**

Q. Push and Clinch Snaps - 3/8" (10mm)
These push & clinch snaps are ideal for multi-layer rubber or vinyl mats. The pronged 3/8" (10mm) socket or 3/8" (10mm) stud is a quick and easy way to install snaps - **20/Pk**.
No. 205AC867 Socket ..... **$31.20/Pk.**
No. 205AC868 Stud ..... **$27.85/Pk.**

R. Snap Adapters - 3/8" (10mm) - 20/Pk.
3/8" (10mm) Socket to 3/8" (10mm) Socket
No. 205AC830 ..... **$21.80/Pk.**
3/8" (10mm) Stud to 3/8" (10mm) Stud
No. 205AC831 ..... **$21.80/Pk.**

S. Snaps For Grounding Straps To Mats - 3/8" (10mm)
Adapter Snaps For adapting Mat grounding cords to a female socket. Size: 3/8" (10mm).
No. 286PT9849 3/8" (10mm) ..... **$22.00 25/Pk.**

T. 3/8" (10mm) Universal Snap Kit
Fast and easy way to install 3/8" (10mm) snaps on soft work station materials. Two screws provided for a wide range of thickness.
No. 205ST986 Set **$2.10**

U. 3/8" (10mm) Heavy-Duty Snap Tool
Designed for field installation of 3/8" (10mm) snaps (sockets or studs). 8" long handles make it easy to use.
No. 205PR100 ..... **$25.90**

Techni-Stat® ESD Workstation Grounding Kits

These ESD Workstation Grounding Kits where designed to ground the worksurface, technician, mats, and any other equipment that requires a ground connection to insure proper static dissipation.

Kit 100 Includes: (1) Single Banana Ground Jack; (1) Terminal Block, 8 pair connection; (1) Wrist Strap & cord (1size fits all); (2) Jumper wires w/ terminals; (1) Worksurface ground bolt; (1) Hardware kit (all items req. to install).
No. 247ST100 ..... **$47.60**

Kit 200 Includes: (2) Single banana ground jack; (1) terminal block, 8 pair connections; (2) wrist strap and cord (1 size fits all); (2) jumper wires w/ terminals; (1) worksurface ground bolt; (1) hardware kit (all items req. to install).
No. 247ST200 ..... **$64.60**

Kit 300 Includes: (1) Double banana ground jack; (1) terminal block, 8 pair connections; (1) wrist strap and cord (1 size fits all); (2) jumper wires w/ terminals; (1) worksurface ground bolt; (1) hardware kit (all items req. to install).
No. 247ST300 ..... **$51.00**

Kit 400 Includes: (2) Double banana ground jack; (1) terminal block, 8 pair connections; (2) wrist strap and cord (1 size fits all); (2) jumper wires w/ terminals; (1) worksurface ground bolt; (1) hardware kit (all items req. to install).
No. 247ST400 .. **$81.60**

Techni-Stat® Antistatic Badge Holders

The antistatic badge holder reduces static discharge to maintain the utility of badges. Holders are amine free, colorless, transparent and permanently antistatic. The holders are supplied either with a clip or a necklace. Surface Resistance: $10^8\Omega$/sq.; Material: PMMA.

With Conductive Clip
No. 220ST001 (CPIDC) **$7.40**
With Necklace
No. 220ST002 (CPIDN) **$7.40**

TECHNI-STAT

Techni-Stat® Static Safe Badge Holders

Constructed from static safe heavy-duty vinyl. Available in clip or button hole fastening options. Static safe logo. Resistivity 10^9- $10^{11}\Omega$/sq. Clip on included.

Clip on ID Holder
No. 205ST028 Vertical **$3.50**
No. 205ST029 Horizontal **$3.50**
Proximity Card Holder
No. 205ST033 Vertical **$3.50**
No. 205ST034 Horizontal **$3.50**
Strap Clip
No.205ST036 ..... **$1.90**
Breakaway Neck Strap 27"
No. 205ST137 ..... **$2.60**

Techni-Stat® Static Dissipative and Antistatic Rubber Bands

Approximately 1kg bags.

Dissipative Bands: 10^6 - $10^7\Omega$/Sq.
3" x 1/16", Approx 1800/bag.
No. 205ST018 ..... **$15.95/Bag**
4.5" x 1.8", Approx 750/bag.
No. 205ST019 ..... **$15.95/Bag**
5" x 1/4", Approx 360/bag.
No. 205ST020 ..... **$21.70/Bag**
7.5" x 1/8", Approx 200/bag.
No. 205ST021 ..... **$16.50/Bag**

Antistatic Bands: $10^{10}\Omega$/Sq.

No. 205ST022	2" x 1/8"	Approximately 1800/bag.	**$21.70/Bag**
No. 205ST025	3.5" x 1/8"	Approximately 700/bag.	**$21.70/Bag**
No. 205ST027	5" x 1/4"	Approximately 380/bag.	**$27.00/Bag**
No. 205ST026	8" x 1/4"	Approximately 400/bag.	**$27.00/Bag**
No. 155ST090	9" x 1/4"	Approximately 1 lb. 30/bag.....	**$40.00/Bag**

Static Accessories

Sheet Protector, 3 Ring

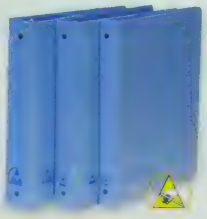
A clear, static-dissipative sheet protector for static sensitive areas. Holds 8-1/2" x 11" documents.
No. 758ST142..... **$15.85/25Pk.**

Dissipative Ball Point Pen

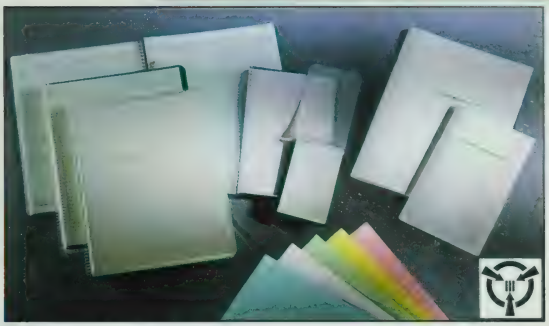
Use this pen in ESD-areas or elsewhere. Made from black, dissipative plastic. Your pen includes black ink cartridge. (Germany)
No. 217ST123..... **$3.15**

Static Dissipative Binders

Made from 16 mil type Q blue vinyl material. Surface resistivity: $10^{11}\Omega$. Standard three-ring with reaching hand symbol on spine and front of cover.



1" Ring, 1-1/2" Spine **No. 758ST321 $15.75**
1-1/2" Ring, 2.3" Spine **No. 758ST315 $13.25**
2" Ring, 2.9" Spine **No. 758ST320 $15.25**
3" Ring, 4.2" Spine **No. 758ST322 $18.75**



Lym-Tech Clean Room Compatible Paper

Has been developed to provide clean rooms with a paper that will reduce the risk of contamination. It is impregnated and coated with a special polymer that inhabits particulate generation and chemical extractables. **Features include:** ultralow particle generation; ultralow metallic ion content; high brightness; high opacity; high tear and tensile strength; mullen burst strength of 50lbs. per in.; heat resistant; and compatible with virtually any ink system. All our paper is processed and double-bag packaged Class 100 cleanroom.

Copy Machine Paper:
It is dimensionally stable and compatible in both wet and dry copy systems. **Specs**: 8.5" x 11"; 250 sheets per package.

No. 518PR524 White **$12.00**
No. 518PR523 Blue **$12.00**
No. 518PR521 Green **$12.00**
No. 518PR522 Pink **$12.00**
No. 518PR526 Yellow **$12.00**

Notebooks:
Each notebook is college ruled, spirally bound and protected with durable plastic covers. 50 sheets/book.

No. 518PR515 3" x 5" **$3.95**
No. 518PR514 5.5" x 8.5" **$5.45**
No. 518PR512 8.5" x 11" **$10.75**
1/4 Grid Lab Manual - 50 sheet/book. No. 518PR513 8.5" x 11" **$10.75**

Softnotes:
Designed as an economical approach to note keeping or for small jobs.
12 Sheets/Book
No. 518PR600 5.5" x 8.5" **$1.75**
No. 518PR602 8.5" x 11"... **$2.30**
24 Sheets/Book
No. 518PR601 5.5" x 8.5" **$3.25**
No. 518PR603 8.5" x 11"... **$4.45**

Techni-Stat® ESD Clip Board

This ESD-Safe clip board has a heavy-duty static dissipative 16 mil vinyl meeting Mil-Spec B standards. 9-3/8"W x 12-1/2"H x 1/8"T. Conductivity: $10^{10}\Omega$ - $10^{11}\Omega$ surface-to-ground. Resistance and a charge decay of 0.30 seconds.
No. 205ST602 ..... **$14.95**

ESD Chair Tester

New!

Ensure that your chairs are compliant in ESD protected areas with the ESD Chair Tester. This chair tester monitors the performance of your chairs for general wear and tear of seat material, built up dirt on all casters and environmental conditions so that your chairs remain in manufacturers specifications. **Features:** an easy-to-use testing and auditing meter with a range of 1E 10^3 Ω/sq to 1E 10^{12} Ω/sq; easy-to-read display and dual measurement LEDs. **Includes:** stainless steel chair caster plate; insulating plate; connecting leads; analog meter.
No. 106ST900 ..... **$695.00**

TECHNI-TOOL
Fax: 1-800-854-8665

3M 4600-Series Quick - Zip Wrist Bands

3M

4600 Series Wrist Bands are lightweight, and they safely make contact with human skin. The "zipper-style" latching mechanism easily adjusts to any size wrist. The "comfort bumps" design on the conductive interior insert ensures air flow between the band and your skin. The Bands are also highly visible, making it easy for supervisors to see that the wrist straps are properly used. You can even color code to identify your worker groups.

Strap stud and 5 Ft. ground cord

No. 105AC670 (4670) Blue **$6.85**
No. 105AC671 (4671) Green **$6.85**
No. 105AC672 (4672) Purple **$6.85**
No. 105AC673 (4673) Maroon **$6.85**
No. 105AC674 (4674) Lime **$6.85**

Strap only

No. 105AC464 (4640) Blue **$1.90**
No. 105AC641 (4641) Green **$1.90**
No. 105AC642 (4642) Purple **$1.90**
No. 105AC643 (4643) Maroon **$1.90**
No. 105AC644 (4644) Lime **$1.90**

4700-Series Dual Conductor wrist band. (No ground cord)

No. 105ST4720 (4720) Blue **$5.95**
No. 105ST4721 (4721) Green **$5.95**
No. 105ST4722 (4722) Purple **$5.95**
No. 105ST4723 (4723) Maroon **$5.95**
No. 105ST4724 (4724) Lime **$5.95**

3M 2214/2224 Series Adjustable Wrist Strap

Soft, lightweight band conforms gently and allows skin to breathe. One size adjusts easily to custom fit any wrist with 360° skin contact & electrical conductivity for continuous, reliable protection from static charge on the worker's body. 1 MΩ resistor prevents current from exceeding 0.5 milliamps through the cord for up to 220V AC. Burgundy.

No. 780ST2214 (2214) Strap with 5' Cord **$24.20**
No. 780ST2224 (2224) Strap with Heavy-Duty 10' Cord **$30.10**
No. 780ST2240 5' Cord Only **$17.65**
No. 780ST2204 Strap Only **$10.00**
No. 780ST2234 Strap with 4' **$26.50**

2360 Series Dual Conductor Fabric Wrist Straps

The dual conductor wrist strap permits monitoring resistance to ground of the operator. These straps are segmented for strain relief, comfortable, and made of brightly colored fabric. Use with workstation monitor 724, wrist strap monitor 725, and other dual stations. **(USA)**

Wrist Strap w/Gear Teeth & 5' Cord.

No. 780ST361 Small (4.5 to 6.25") Pink **$37.00**
No. 780ST2362 Medium (5.5 to 7.25") Aqua **$37.00**
No. 780ST2363 Large (Over 6.5") Purple **$37.00**

Dual Conductor Fabric Wrist Band with Gear Teeth.

No. 780ST2364 Small **$14.95**
No. 780ST365 Medium **$14.95**
No. 780ST2366 Large **$14.95**

Adjustable Dual Conductor Fabric Wrist Band

No. 780ST2368 ..... **$13.90**

3M 2272 Highland Economy

Adjustable wrist strap with 5' coiled cord and alligator clip.

No. 780ST272 Blue **$7.70**
No. 105ST271 Strap Only **$3.50**

3M Spiedel® Metal Wrist Strap

These straps feature Spiedel® metal expansion bands for durability each link is capped with an insulative metal cap. Includes 5' coiled cord.

No. 105ST245 Small **$33.20**
No. 105ST246 Medium **$33.20**
No. 105ST247 Large **$33.20**

Bulk Pack - 25 Bands Only

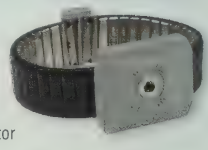
No. 105ST206 Medium **$18.00**

3M 230 Dual Conductor Ground Cords

For use with dual conductor strap. Coiled cord w/gear teeth.

No. 780ST2370 (2370GT) 10' **$22.00**
No. 105ST2371 (2371GT) 20' **$27.15**

3M 2380 Series Dual Conductor Metal Wrist Straps for Monitors



These long-lasting metal wrist straps with dual grounding cords permit monitoring of resistance to ground of the operator. Used with the 3M™ Workstation Monitor 724, Wrist Strap Monitor 725, and other Dual Stations. **(USA)**

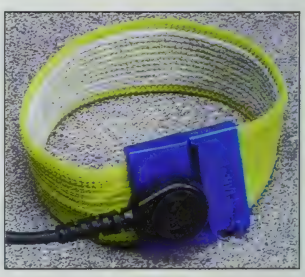
Wrist Band with Gear Teeth

No. 105ST384 Small, No Cord **$25.85**
No. 105ST238 Medium, No Cord **$25.85**
No. 105ST386 Large, With Cord **$25.85**

Wrist Strap with Gear Teeth

No. 105ST381 Small **$38.80**
No. 105ST2382 Medium .. **$38.80**
No. 780ST2383 Large **$38.80**

3M 2259 Adjustable Wrist Strap



This wrist strap has an adjustable comfort band with Silver-plated, continuous monofilament threads that establish a 360° contact zone and path to ground. Conical stud and spring snap ensure reliable contact with any degree of grounding cord rotation. Includes band cord and alligator clip. One-year warranty on ground cord and coil; wrist band 90 days. 5' Coiled Cord.

No. 780ST2259 ..... **$11.65**

ESD Training CD-ROM

3M ESD Awareness Training Program CD-ROM

Electrostatic discharge (ESD) is a serious threat to your valuable electronic products and equipment. The new ESD Awareness Training CD-ROM Program offers a cost-effective, state-of-the-art multimedia tool for bringing the basics of static electricity theory and practice to each employee. This computer-based program is self-administrating and self-paced, using advanced CD-ROM technology that combines video, audio, animation, and graphics for a practical and enjoyable learning experience. The complete training package includes the CD, installation instructions and separate manuals for the student and the administrator. **(USA).**

No. 105ED7308 ..... **$675.00**

Foot Grounding Straps

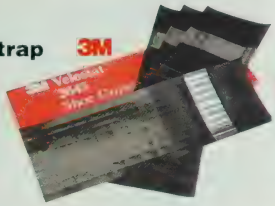
3M 2053 Toe Grounding Assembly

Designed for use with high-heeled shoes. A comfortable elastic ankle strap and 12-inch long conductive ribbon for insertion into the shoe to complete the ground path to the operator, and a 2MΩ resistor.
A.No. 780ST053 ..... **$10.80/ea.**

3M 2051 Shoe Ground Assembly

Model 2051 conductive, non-slip outer sole, inner liner extra-long contact ribbon. The 2051 comes with a 1MΩ resistor. One size fits all. Adjustable elastic ankle strap.
B. No. 780ST051 ..... **$7.95/ea.**

3M Velostat® 2045 Disposable Grounding Strap



Provide a reliable path for static charge to drain to ground when personnel are wearing shoes with insulative soles. Desirable in work situations where workers must move around. One size fits all low-cut shoes. 100/box.
No. 780ST2045..... **$38.45/Bx.**

3M 2056 Series Non-Marking Shoe Grounder

New!

These disposable easy-to-use shoe grounding straps effectively ground your workers when they are in contact with conductive and dissipative flooring. The disposable strap clips to the upper part of the shoe and makes contact with the stocking. A pressure-sensitive portion of the strap is then attached to the bottom of the heel assuring that a reliable contact to the heel is maintained

No. 105ST056 1MΩ resistor ..... **$9.45/ea.**
No. 105ST205 2MΩ resistor ..... **$9.45/ea.**
No. 105ST057 240KΩ resistor ..... **$9.45/ea.**

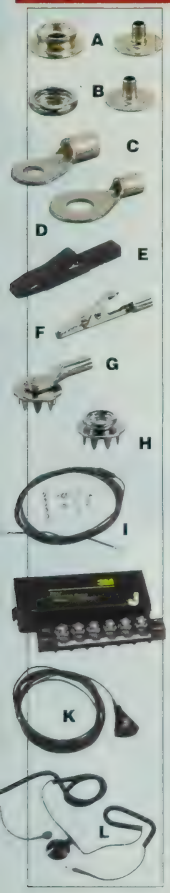
3M 2059 Heel Economy Grounder

New!

Protect your workers from conductive and dissipative flooring with the 3M Heel Grounding Assembly. This hook and loop close, black elastic heel assembly has a conductive, slip resistant outer loop that provides a reliable static ground and comes with a 1MΩ resistor.
No. 105ST059 ..... **$4.95/ea.**

3M Grounding Systems Cord & Connectors

Your one-stop source for static accessories!



Snap Fastener, male, for mats and runners.
A. No. 780ST3033 ..... **$9.25**

Snap Fastener, female, for mats .125" and runners.
B. No. 780ST3034 ..... **$9.25 10/Pk**

Solderless Terminal for 8AWG or wire.
C. No. 780ST3035 ..... **$12.35 10/Pk**

Solderless Terminal for 12-10 AWG 1/8" wire.
D. No. 780ST3036 ..... **$12.35 10/Pk**

Insulated Bulldog Clip. Fits standard banana plug.
E. No. 780ST3037 ..... **$45.75 10/Pk**

Uninsulated Alligator Clip. Fits standard banana plug.
F. No. 780ST3038 ..... **$12.35 10/Pk**

Wrist Strap Swivel Connector for 8AWG wire.
G. No. 780ST3039 ..... **$18.45 10/Pk**

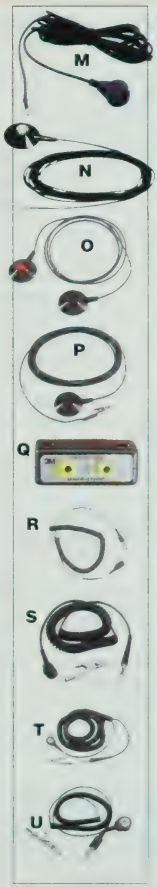
Snap Fastener, female, for table, floor mats and runners.
H. No. 780ST3050 ..... **$12.35 10/Pk**

Grounding Kit for static protective hard laminate. Incl. #10 screw, #10 nut, lock washer, lock washer wing nut, self-tapping screw, one 10' grounding cord. 1 MΩ resistor.
I. No. 780ST3041 ..... **$12.60**

Common Point Grounding System for workstation components. Single-row, six-terminal strip, protective cover, three cable clips.
J. No. 780ST3047 ..... **$27.85**

Wrist Strap/Table Mat Grounding System. For grounding wrist straps, table mats and table runners with two banana jacks and one 15' grounding cord.
K. No. 780ST3048 ..... **$15.85**

Common Point Grounding for Portable Service Kits. Snap that connects to work surface; 5' coiled cord on one side of center snap connects to ground; 10' coiled cord on other side of snap connects to wrist band. 1MΩ resistor on each cord.
L. No. 780ST3051 ..... **$33.70**



Common Point Ground. Two workers can use the same ground for wrist straps, snaps on any 3/8"F. **Specs:** 10mm male snap; 1mΩ resistor; 10' long cord; #10 terminal ring.
M. No. 205ST001 ..... **$8.50**

3040 Grounding Cord. Molded-in male snap fastener with integral 1MΩ resistor on one end, solderless terminal on other. Connects all static control mats and runners to building ground. 15' ground cord.
N. No. 780ST3040. ..... **$13.00**

Interconnect Cord 5' with 1Ω resistor, male snap fastener at each end. For grounding table mats to floor mats and runners.
O. No. 780ST3043. ..... **$12.20**

Grounding Cord 15' with 1MΩ resistor, male snap fastener at one end, alligator clip at other end
P. No. 780ST3044 ..... **$14.75**

Wrist Strap Grounding System with two banana jacks and one 10' grounding cord.
Q. No. 780ST3042 ..... **$20.15**

The 3M™ Dual Conductor Wrist Strap Ground Cord is for use exclusively with 3M Dual Conductor Wrist Straps Dual Conductor Coiled Cord, 5' (1.5m) practical length
R. No. 780ST2360 ..... **$19.95**

Ground Cord, coiled 5
S. No. 780ST2210 ..... **$16.50**

Ground Cord, coiled 10'.
T. No. 780ST2220 ..... **$20.00**

Ground Cord, lightweight, heavy-duty coiled 5
U. No. 780ST2240 ..... **$17.65**

Ground Cord, coiled 10', 4mm snap end
No. 105ST611 (Not Shown) **$5.85**

Ground Cord, coiled 5', 10mm snap end
No. 105ST4614 (Not Shown) **$4.95**

TECHNI-STAT

A

Techni-Stat® Electrically Conductive Anti-FatigueCut Mats

Prevents the accumulation of static electricity by quickly draining it from workers. Also protects potentially volatile areas from dangerous sparks. The resilient sponge base reduces standing worker fatigue. The resistivity-smooth surface has a surface to surface of 4 x $10^4\Omega$/sq. and a surface to ground of 4 x $10^4\Omega$/sq. 3'W x 5'L x 9/16"T. **(USA)**

A. No. 770ST355 Black Smooth **$184.50**

B. No. 770ST787 Black Diamond Plated **$184.50**

B

Techni-Stat® Anti-Fatigue Floor Mat

Use in areas where static discharge can harm electronic components, computer operations, telecommunications. Drains static electricity from workers before it disrupts sensitive equipment. Relieves employee fatigue. Sponge base reduces stress on the spine and lower back muscles caused by static body position. Vinyl surface has slip resistant texture. 1/2" overall thickness, edges beveled for safety. Static Dissipative: Surface to ground- 1 x 10^7 ohms; Surface to surface - 1 x $10^7\Omega$/sq. Color: Gray. 60"L x 36"W mat with 10' ground cord. **(USA)**

C

C. No. 770ST791 ..... **$130.90**

Techni-Stat® 10^8 Anti-Fatigue Mats

These anti-fatigue vinyl foam floor mats provide comfort and the best electricals of any anti-fatigue mat. With a surface reading of 2 x $10^8\Omega$/sq., you are assured of a safe discharge of static electricity. **(USA)**

D

D. V-Grooved Floor Mat - 1/8" thick mat - Gray Only

No. 205ST035 3' x 5' mat **$59.25**
No. 205ST503 3' x 50' roll **$540.00**
No. 205ST068 3' x 60' roll **$576.00**
No. 205ST070 4' x 60' roll **$776.00**

Techni-Stat® Dissipative Solid Assembly Vinyl Mat

Used for general assembly, this mat is made of extruded vinyl that is easy to cut, durable and easy to maintain. **Specs:** RTT: 1.2 x $10^7\Omega$/sq - 1.6 x $10^8\Omega$/sq *per ANSI EOS/ESD*-S4.1 @100V. RTG: 1.7 x $10^8\Omega$/sq - 5.4 x $10^8\Omega$/sq *per ANSI EOS/ESD-S4.1* @ 100V. Thickness: 100" (2.5mm). **(USA)**

Beige		
205ST252	24" x 50'	**$317.50**
205ST050	30" x 50'	**$379.00**
Blue		
205ST250	24" x 50'	**$317.50**
205ST3050	30" x 50'	**$399.00**
Brown		
205ST251	24" x 50'	**$317.50**
205ST305	30" x 50'	**$399.00**

Superb Resistance To Static Discharge And Fatigue.

Techni-Stat® Ex-Static Mat

Effectively drains static electricity from workers before sensitive equipment is damaged. Prevents standing worker fatigue. Durable, anti-skid corrugated surface bonded to an extremely resilient sponge base. 1/2" overall thickness. Excellent quality, yet economically priced. For best results, ground the mat. Excellent resistivity: Surface to Surface: $10^8\Omega$/sq, Surface to Ground: $10^8\Omega$/sq. Color: Gray. 5'L x 3'W x 1/2'T. **(USA)**

No. 770ST810 Mat **$131.40**

No. 770AC618 Optional Ground Cord, 15' ... **$11.60**

Custom Sizes Available!

Techni-Stat® Stat-Guard Runner

Quickly drain static electricity from a standing worker. This extremely durable mat is great for high traffic areas, featuring a textured, slip-resistant surface. It also has excellent surface-to-ground resistivity (10^7 to $10^8\Omega$/sq). For maximum effectiveness, ground every 10' to 15'. **(USA)**

3' x 5' x 3/8" Gray
No. 205ST060 ..... **$58.70**
3' x 60' x 3/8" Gray
No. 205ST062 ..... **$499.90**
3' x 5' x 3/8" Brown
No. 205ST064 ..... **$58.70**
3' x 60' x 3/8" Brown
No. 205ST066 ..... **$499.90**

Techni-Stat® Anti-Fatigue Foot-Eze Mat

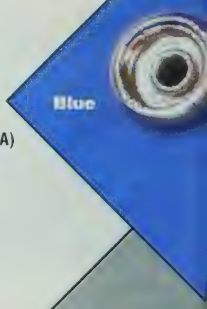
Provides cushioning underfoot and reduces fatigue. Permanently static dissipative. Textured, slip-resistant surface is constructed of pure virgin vinyl, 3/8" thick with 10' ground cord. Flame resistant-*meets DOC-FFI-70 standards.* Resistivity: Surface to surface: $10^8\Omega$/sq. Static Decay Time is less than 0.10 second. Surfaces should be cleaned regularly with proper cleaner to avoid electrical interference. For use around computer terminals, electronic cash registers, checkout stands and receiving areas. Color: Chocolate Brown. Size: 5'L x 3'W x 3/8"T; Custom sizes are available – Call for details. **(USA)**

No. 770ST440..... **$64.20**

Techni-Stat® Dissipative Rubber 2 Layer Mats and Rolls

Ideal for soldering or assembly areas. The dual purpose rubber matting material is dissipative on one side and conductive on the other. The rubber material has superior resistance to heat, abrasion and chemicals. Easy to roll, clean and maintain. **(USA)**

Blue Mats	**In. x Ft.**	
No. 205ST203	24" x 36"	**$52.90**
No. 691ST448	24" x 48"	**$47.25**
Gray Mats	**In. x Ft.**	
No. 205ST320	24" x 36"	**$49.50**
No. 205ST204	24" x 48"	**$59.90**
No. 205ST074	24" x 60"	**$76.50**
Blue Rolls	**In. x Ft.**	
No. 205ST225	24" x 50'	**$499.00**
No. 205ST0305	30" x 50'	**$675.00**
No. 205ST350	36" x 50'	**$759.50**
No. 205ST450	48" x 50'	**$989.00**
Gray Rolls	**In. x Ft.**	
No. 205ST205	24" x 50'	**$499.00**
No. 205ST5030	30" x 50'	**$629.50**
No. 205ST053	36" x 50'	**$880.50**
No. 205ST850	48" x 50'	**$989.00**



Need another catalog? Call us today...
1-800-505-TOOL

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Techni-Stat® Solid Work Station Mat

Solid vinyl material. Three-layer formation. Static decay time of less than 0.05 seconds. Allows workers to handle highly-sensitive equipment and components without transmitting harmful static electricity. Snap size: 3/8" female. Resistivity: Surface to ground - 10^5 x 10^7 Ω/sq; Surface to surface - 10^7 Ω/sq. Clean surface regularly with proper cleaner to avoid electrical interference.
Meets EOS/ESD Standards. **(USA)**

Mats: *(with ground cord, wrist strap and snap)*

2'Wide x 3'Long
No. 205ST230 Blue **$46.70**
No. 205ST123 Brown **$46.50**
No. 205ST223 Beige **$46.70**

2'Wide x 4'Long
No. 770ST793 Blue **$58.40**
No. 205ST024 Brown **$58.40**
No. 205ST124 Beige **$58.40**

2-1/2'Wide x 4'Long
No. 205ST304 Blue **$74.70**
No. 205ST314 Brown **$74.70**
No. 205ST324 Beige **$74.70**

2'Wide x 5'Long
No. 205ST056 Brown **$67.35**
No. 205ST058 Putty **$67.35**

Rolls: *(ground cord, wrist strap and snap sold separately)*

2'Wide x 50'Long
No. 205ST250 Blue **$317.50**
No. 205ST251 Brown **$317.50**
No. 205ST252 Beige **$317.50**

2-1/2'Wide x 50'Long
No. 205ST3050 Blue **$399.00**
No. 205ST305 Brown **$399.00**
No. 205ST050 Beige **$399.00**

3'Wide x 50'Long
No. 205ST054 Blue **$475.00**

Techni-Stat® Clean Mat

A one layer solid table mat designed to be used in clean rooms as well as general assembly areas. Resistant to heat and most oil, grease and common solvents. This material provides a safe non-carbon work surface to dissipate a static charge <10^9Ω/sq. at a work station. The static dissipative rubber design meets or exceeds EOS/ESD standards. All cut mats come with one snap and a 10' common point ground. **(USA)**

No. 205ST712 2' x 3' **$49.90**
No. 205ST724 2' x 4' **$59.90**
New! **No. 205ST725** 2' x 5' **$75.00**
No. 205ST125 2' x 50' **$525.00**
No. 205ST730 30" x 50' **$625.00**
No. 205ST135 3' x 50' **$695.00**

Techni-Stat® Worktable Mat

A tri-layer static dissipative mat that has been tested and approved by major electronics manufacturers. This mat protects components yet is hard enough to resist tearing and scuffing. Each mat comes with a 10 foot common point grounding cord and 3/8" female snap. Surface Resistivity: Face 10^7-10^9Ω/sq<; Volume Resistivity: <10^5Ω/sq Point to point Resistivity: <10^6Ω/sq; Thickness: .120" ±.01. Charge Decay: 5000 volts to less than 50 volts in .01 seconds; Inner Layer: <10^5Ω/sq; Back Surface: <10^6Ω/sq; Surface Texture: Lightly textured. **(USA)**

24"W x 36"L x 1/8"T
No. 205ST323 ..... (1-11) **$36.65** (12+) **$31.90**
24"W x 48"L x 1/8"T
No. 205ST012 ..... (1-11) **$48.20** (12+) **$46.30**
24"W x 60"L x 1/8"T
No. 205ST325 ..... (1-11) **$61.00** (12+) **$52.75**
24"W x 72"L x 1/8"T
No. 205ST206 ..... (1-11) **$76.80** (12+) **$64.50**
30"W x 48"L x 1/8"T
No. 205ST076 ..... (1-11) **$77.00** (12+) **$65.25**
(Custom Lengths available on 2 foot wide mats.)

Rolls: 40 Foot Length
No. 205ST244 24" x 40' **$284.00**
No. 205ST078 30" x 40' **$315.20**
No. 205ST080 36" x 40' **$386.50**
No. 205ST440 48" x 40' **$599.00**

Soft 2-Layer Dissipative Rubber Mat

This mat has a textured Blue Static Dissipative side (Top) and a Black Conductive side (Bottom) – creating a burn resistant static dissipative work surface mat with a total volume resistivity of 10^5Ω/sq. Resistant to most acids, oils and chemicals, this work surface mat will withstand (.060" thick) contacts with soldering irons and molten solders. Each mat comes with a 3/8" female snap and 10' ground cord. Mat thickness: 0.060". **(USA)**

Rolls:
No. 205ST225 2'W x 50'L **$499.00**
No. 205ST0305 2.5'W x 50'L **$675.00**
No. 205ST350 3'W x 50'L **$759.50**

Mats:
No. 205ST203 2'W x 3'L **$52.90**
No. 691ST448 2'W x 4'L **$47.25**

Technical Operator Pad

This safety anti-fatigue 1/4" vinyl table pad provides comfort and the best electricals of any work pad. With a surface reading of 2 x 10^9Ω/sq. Use over as ESD surface, you are assured of a safe discharge of static electricity. 18-1/4"W x 23-5/8"D x 1/4" T. **(USA)**
No. 205ST824 ..... **$11.00**
No. 205ST420 2' x 40' roll **$249.50**

Static Dissipative Hard Table Laminates

SPI

Dissipative table tops control static electric charges without voltage suppression ambiguity. Homogeneously blended, balanced ply construction. Laminates have a micro thin layer of aluminum oxide, creating an extremely hard protective layer, which provides long term resistance to surface abrasion. Includes 7mm male snap and stud.

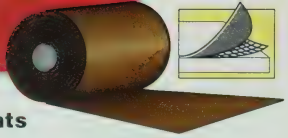
Specs: Surface Resistivity: 10^6 - 10^9Ω/sq, per ASTM D257 in accordance with EOS/ESD Standard No. S4.1; Resistance to Ground: 10^6 - 10^9 Ω/sq, per *NFPA 99 in accordance with EOS/ESD Standard No. S4.1; Decay: 5000V to 500V in <0.05 seconds in accordance with FTMS 101C method 4046*; Thickness: 0.060". **(USA)**

An additional $25.00 crate charge, exclusive of F.O.B freight charge, will appear on your invoice.

24" x 48"
No. 691ST2011 Blue **$48.30**
No. 691ST032 Beige **$48.30**
No. 691ST035 Off White **$48.30**
No. 691ST038 Grey **$48.30**
No. 691ST041 Almond **$48.30**

36" x 60"
No. 691ST030 Blue **$104.75**
No. 691ST033 Beige **$104.75**
No. 691ST036 Off White .. **$104.75**
No. 691ST039 Grey **$104.75**
No. 691ST042 Almond **$104.75**

36" x 72"
No. 691ST031 Blue **$125.65**
No. 691ST034 Beige **$125.65**
No. 691ST037 Off White .. **$125.65**
No. 691ST040 Grey **$125.65**
No. 691ST043 Almond **$125.65**



3M 8200 Series Three- Layer Mats & Runner

8200 series mats have a unique Three-Layer Construction. The top layer is durable semiconductive vinyl. Beneath the semi-conductive vinyl top is highly conductive scrim that provides the main discharge path to ground. The bottom layer is (static dissipative foam backing) nonskid cushion that helps prevent the bypassing of the (conductive) layers. *(Wrist Strap must be purchased separately.)*

Floor Mats 4' x 6'- 8200 Series

Incl.: One 15' ground cord, two female snap fasteners installed.

Floor Mat 8201, Brown
No. 780ST8201 ..... **$198.60**

Floor Mat 8203, Gray
No. 780ST8203 ..... **$198.60**

Floor Mat 8204, Blue
No. 780ST8204 ..... **$198.60**

Table Mats 2' x 4'

(Wrist Strap must be purchased separately.)

Table Mat 8210, Gold
No. 105ST820 ..... **$84.10**

Table Mat 8212, Beige
No. 780ST8212 ..... **$84.10**

Table Mat 8213, Gray
No. 780ST8213 ..... **$84.10**

Table Mat 8214, Blue
No. 780ST8214 ..... **$84.10**

Table Mat 8215, Granite
No. 780ST8215 ..... **$84.10**

Floor Runner 4' x 24'

No. 105ST8252 Runner 8252, Beige **$706.55**
No. 105ST8253 Runner 8253, Gray **$706.55**
No. 105ST254 Runner 8254, Blue **$706.55**

Floor Runner 2' x 24'

Runner 8262, Beige
No. 105ST8262 ..... **$384.10**

Runner 8263, Gray
No. 105ST8263 ..... **$384.10**

Runner 8264, Blue
No. 105ST8264 ..... **$384.10**

Runner 8265, Granite
No. 105ST265 ..... **$384.10**

Runner 8261, Brown
No. 105ST8261 ..... **$384.10**

3M 8800 Series Static-Dissipative Mats & Runners

This mat has a top layer of static-dissipative laminated rubber with a bottom layer of conductive rubber. Other colors/styles available.

Table Runner
No. 105ST841 2' x 24' Blue **$384.10**
No. 105ST860 3' x 24' Gray **$630.70**
No. 105ST861 3' x 24' Blue **$630.70**

Table Mat
No. 105ST204 2' x 4' Gray .. **$84.10**

Floor Mat
No. 780ST870 4' x 6' Gray .. **$198.60**

3M First Touch™ Keyboard Pads

Place under your PC system and drain away static charge instantly when touched. The pads come in both keyboard size and full computer system size. Gray Color. Keyboard Pad measures 23" x 9.5".
No. 780ST9212 ..... **$27.40**

3M 9500 Series Anti-Fatigue Matting

The new 3M 9500 Series Static-Control, Anti-Fatigue Mats/Runners provides outstanding cushioning and reduces stress on the spine and lower back muscles, which prevents worker fatigue. The mats are carbon-loaded rubber with the carbon mixed evenly throughout the material to ensure the edges are as conductive as the center. Resistance from the surface of the mat to the grounding point is in the range of 2.5 x 10^6 to 1 x $10^7\Omega$/sq. The rubber surface is bonded to a highly resilient insulative sponge base. **3' x 5' Mat,** includes one installed ground snap and one 15' ground cord. **(USA)**
No. 105PR500 ..... **$187.50**

Anti-Static Disposable Mat!

Softy® Work Mats

Anti-static and free from contamination, with non-slip backing. Specially designed cushioned surface to protect delicate assemblies & make small parts handling easier and quicker. Ideal for clean rooms, laboratories, & electronic component assembly lines where static control & sanitary conditions are a necessity. Surface Resistivity: 10^{10}-$10^{11}\Omega$/sq.

No. 250PR014 11" x 14" **$2.65** **No. 250PR016** 14" x 22" **$4.60**

3M Rigid Static Control Work Surface

A durable work top that balances tough physical characteristics with the conductivity needed for proper drainage of static charge. Two factory-installed ground cord snap fasteners with 3M 3048 Common Point Wrist Strap/Table Mat Grounding System (Wrist Strap not supplied). Rounded corners with smooth, non-cutting edges. **Specifications: Thickness:** 1/8", **Conductivity:** 10^6 -$10^8\Omega$ surface-to-ground resistance at 50% RH, 72°F, **Finish:** Semi-gloss, non-staining, **Abrasion Resistance:** 1800 cycles on wear test NEMA #LD-3-3.01. Packaged flat, one per carton. 24" x 48", Beige.
No. 780ST8350 ..... **$203.50**

For Rigid Floors Only!

3M Velostat™ 1880 Series Conductive Mats & Runners

To remove static charge from personnel as they approach work areas. Runners extend static protection throughout and between entire areas. Resistivity $40^2\Omega$-cm.

Velostat 1864 Floor Mat

1/8" thick. Two female snap fasteners installed and one 15' ground cord, with 1MΩ resistor.
No. 780ST1864 24" x 32" Black **$73.80**
No. 105ST864 4' x 8' **$259.00**

Velostat 1864R Floor Runner

1/8" thick. **Includes** two 15' ground cords with 1MΩ resistor, cord female snap fasteners & one installation tool.
No. 780ST1865 2' x 50' Gray **$745.40/roll**

Velostat 1880 Rigid Floor Mat

No. 105ST1880 4' x 6' **$233.50/roll**

3M Velostat 1872 Rigid Table Mat

This is the work surface you choose when you require higher conductivity. **Includes**: 15' ground cord with 1MΩ resistor and snaps. 2'W x 4'L x 1/16"H.
No. 105ST872 ..... **$69.80**

3M Velostat™ Workstation Grounding Kits

Ready to use kits include: table mat 2' x 4'; floor mat 4' x 6'; ground cord 15'; wrist strap/table mat grounding system; Charge-Guard wrist strap (with three band sizes). Up to two wrist straps connect to the system. The system grounds both the wrist straps and the mats. Table and Floor Mats, three-layer vinyl construction-Complete Kit.

No. 780ST8022 Beige **$259.00**
No. 780ST8024 Blue **$259.00**
No. 105ST025 Granite **$259.00**
No. 780ST8030 Gold **$259.00**
Other Colors Available!

3-Layer Table Mat, Velostat® Floor Mats - Complete Kit

Kit contains two types of static control mats.
A three-layered table mat plus rigid velostat floor mat.
No. 780ST8032 Beige **$247.90**
No. 780ST8034 Blue **$247.90**

3M Portable Service Kits

Includes work mat with two pockets 2 ft. x 2 ft., 15' ground cord assembly, one adjustable band.

Field Service Kit
No. 780ST8501 ..... **$56.40**

Telcom Kit
No. 780ST8502 ..... **$85.30**

3M Mini Field Service Kit

Compact and easily transportable. Folds to a size of 3-1/2" x 6-1/2" x 3/4". Kit includes a 15" x 20" static dissipative mat with a pocket along the bottom edge, and adjustable wrist strap, alligator clip and three heavy-duty coiled ground cords.
No. 780ST8505 ..... **$59.00**

Non-Conductive Military Switchboard Matting Rolls

A

Protect your employees from the dangers of high voltage areas and equipment by insulating against as much as 40,000V of electricity. This safety mat features: deep, horizontal grooves for sure footing; ozone and flame resistant; and conforms to *ANSI/ASTM D-178-93 type 2, class II*. **Specs:** Dielectric Strength: 30,000V. *Mil. Spec 15562-F.* 1/8" Thick. **(USA)**

A. Smooth Military Mat: size 3'W x 75'L x 1/8"T.
No. 770ST065 Black..... **$863.30**

B

B. Diamond-Plate Military Mat: size 3'W x 75'L x 3/16"T.
No. 770ST081 Gray..... **$1999.90**

Custom Sizes available call.
Special Orders to 75'. Call for info.

C

Richmica™ VII Floor Runners

Use *Richmica VII* wherever explosive gases, powders or liquids are encountered, sensitive electronics manufacturing, or (DOD) environments. *Richmica VII* floor runners feature carbon black (conductive) backings. Their ESD properties are permanent and the flooring will not crack. *Richmica VII* floor mats pass the requirements of NASA for explosive applications as well as *NFPA 99* with a rating of approximately 4.2 x $10^6\Omega$ resistance to ground. Surface resistance is approximately 1.7 x 10^1 ohms/square, per *ASTM D-257*. **(USA)**

C. No. 691ST996 4' x 8' Blue..... **$144.00**
D. No. 691ST972 4' x 6' Gray **$108.00**

D

Electro-Soft Floor Mat

Electro-Soft floor mat has springiness and incredible rebound that are not found in other mats of its type. This static dissipative anti-fatigue floor mat is three times more resilient than ordinary vinyl sponge. **Specs:** RTT/RTG: 5 x $10^6\Omega$/sq. Grounding cord not included. 3/8" Thick. **(USA)**

Gray Pebble Finish - 3/8" Thick
No. 758ST702 2' x 3'..... **$30.40**
No. 758ST703 3' x 5'..... **$53.95**
No. 758ST704 3' x 60'..... **$544.00**
No. 758ST705 4' x 60'..... **$725.30**

Black Pebble Finish - 3/8" Thick
No. 758ST706 2' x 3'..... **$30.40**
No. 758ST707 3' x 5'..... **$53.95**
No. 758ST708 3' x 60'..... **$544.00**
No. 758ST709 4' x 60'..... **$725.30**

Type EM 5/8" Conductive Rubber Mat
No. 205ST3500 3' x 5'..... **$180.00**
No. 205ST3600 22" x 3'..... **$214.15**
No. 205ST3200 3' x 20'..... **$912.00**

Ergomat® Nitril ESD

The perfect anti-fatigue mat solution for electronics and explosives manufacturing. Autoclavable at 250° - must be laid flat when cooling. **Specs:** cleanrooms: Class 100; static control: point to point resistance 1.2 x $10^5\Omega$; non-porous; material: virgin nitril rubber with carbon black; thickness: 5/8". ***Three-Year Warranty.***

No. 781ST204 2'x 4' **$184.35** **No. 781ST310** 3' x 10' **$691.20**
No. 781ST304 3' x 4' **$276.50** **No. 781ST408** 4' x 8' **$768.00**
No. 781ST305 3' x 5' **$345.60** **No. 781ST410** 4' x 10' **$960.00**
No. 781ST308 3' x 8' **$552.95**

Ergomat® Standard Polyurethane Anti-Fatigue Mat

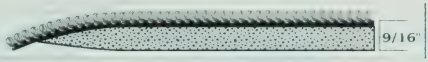
This polyurethane anti-fatigue mat should be used in an all dry, non-abrasive area, and should not be used in wet areas. Clean by sweeping or vacuuming. **Specs:** Point to point resistance 1.2 x 10^5 ohm (typical) - resistance to groundable point 1.6 x $10^5\Omega$/sq.; Raw Material: polyurethane - freon free; thickness: 5/8". ***Five-Year Warranty.***

No. 781ST020 2' x 4' **$157.45** **No. 781ST031** 3' x 10' **$590.40**
No. 781ST030 3' x 4' **$236.15** **No. 781ST048** 4' x 8' **$660.50**
No. 781ST035 3' x 5' **$295.20** **No. 781ST412** 4' x 12' **$990.75**
No. 781ST038 3' x 8' **$472.35**

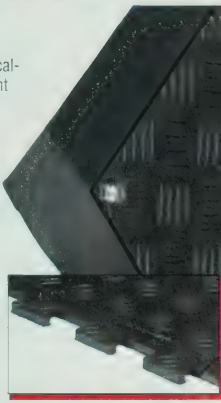
Control Stat Anti-fatigue Mat

Looks great in office, computer and commercial areas. Extremely comfortable. Prevents standing fatigue. Simply vacuum to maintain new appearance. Resistant to high heel damage. Excellent resistivity; Surface to Surface: 3 x $10^5\Omega$ to 5 x $10^5\Omega$/sq.; Surface to Ground: 2 x $10^5\Omega$/sq. to 5 x$10^7\Omega$/sq. Tightly woven 100% continuous filament nylon with a conductive unitary backing. Bonded to a super resilient sponge base. 9/16" overall thickness. **(USA)**

5'L x 3'W mat w/Snap
No. 770ST868 Blue..... **$141.50**
No. 770AC618 Optional Ground Cord, 15'..... **$11.60**



Techni-Stat® Conductive Interlock Mat



Specially compounded 1/2" thick rubber is electrically conductive throughout. Engineered with buoyant air pockets underneath to create a very comfortable work surface. Sections easily "lock" together to create runners of virtually any size. Also available in singles for individual workstations. Excellent resistivity: Surface to ground: $10^6\Omega$/sq., Surface to surface: $10^6\Omega$/sq. Edges are beveled for safe, easy access. Color: Black. **(USA)**

2'L x 3'W End
No. 770ST746..... **$37.50**

2'L x 3'W Center
No. 770ST743..... **$37.50**

Mat only. Finished four sides.
No interlocking tabs.

2'L x 3'W Single
No. 770ST740..... **$37.50**

Techni-Stat® Diamond-Plate ESD Mat

This mat has a high-tech solid diamond-plate surface which provides additional traction and makes for low maintenance. **Specs:** Compounds: SBR-Grease Resistant, Nitrile - Grease Proof; Resistivity: RTT/RTG: 1 x $10^6\Omega$/sq. Grounding cord not included. 1/2" Thick. **(USA)**

Grease Proof
No. 770ST833 3' x 3'..... **$78.00**

Grease Resistant
No. 770ST834 3' x 3'..... **$62.00**

Modular Worksafe® Light ESD Mat

Modular Worksafe® Light ESD is designed for drainage and is very effective in challenging industrial environments. **Specs:** Compounds: SBR - Grease Resistant, Nitrile - Grease Proof; Resistivity: RTT/RTG: 1 x $10^6\Omega$/sq. Grounding cord not included. 1/2" Thick. **(USA)**

Grease Proof
No. 770ST933 3' x 3'..... **$81.00**

Grease Resistant
No. 770ST934 3' x 3'..... **$64.00**

PulseBar - Static Neutralization Bar

The PulseBar eliminates troublesome static charges that can cause dust or other contaminants to accumulate on surfaces and finished products. With its slimline design and powered by the PulseFlow controller, the PulseBar can be installed on any type of equipment. Typical applications include eliminating electrostatic charges in unidirectional flow benches, and in areas where air assisted ionizers are not practical. **(USA)**

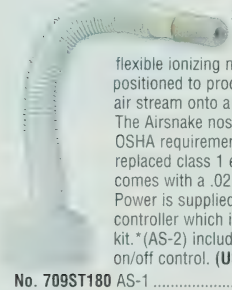
No. 709ST200 12" Bar **$155.00**
No. 709ST201 24" Bar **$185.00**
No. 709ST202 36" Bar **$285.00**
No. 709ST203 48" Bar **$375.00**
No. 709ST204 60" Bar **$475.00**
No. 709ST205 72" Bar **$562.00**

PulseFlow Controller

The Pulseflow Controller operates the PulseBar and can power up to two Bars. The controller will run in either Pulse or Steady State DC to meet performance requirements. The controller features 4 different pulse rates, output voltage from 3.5 - 8KV, and 120 VAC. **(USA)**

No. 709ST184 ..... **$420.00**

Airsnake



The Airsnake (AS-1) is a hands free flexible ionizing nozzle that can be positioned to produce a clean ionized air stream onto a targeted location. The Airsnake nose cone meets OSHA requirements contains easily replaced class 1 emitters, and comes with a .02 micron filter. Power is supplied by the Airflow controller which is included in the kit.*(AS-2) includes a foot pedal for on/off control. **(USA)**

No. 709ST180 AS-1 ..... **$360.00**
No. 709ST020 AS-1 Kit
Nozzle & controller w/airsnake **$695.00**
No. 709ST204 AS-2 ..... **$475.00**
No. 709ST873 AS-2 Kit
Airsnake, foot pedal, nozzle & controller .. **$749.00**

Aerostat Guardian Self Balancing Overhead Air Blower

The Guardian provides fast static charge decay efficiency over an entire work surface area. Equipped with task lighting, an ionization indicator light, and integrated heater, it offers user friendly operation while effectively protecting even the most sensitive components from ESD damage. **Features:** Inherent Balance ±5V, Patented Emitter Point Cleaner, Integrated Heater & Task Lights, Air Diffusers, and UL Listing. Air volume is 150 to 300 CFM, blower. 120 VAC. Measures 42-3/4"W x 4"H x 6-3/4"D. **(USA)**

No. 709ST063 120 VAC .. **$825.00**
No. 709ST261 230 VAC .. **$910.10**

Cleanroom Version (Class 10)
No. 709ST165 120 VAC .. **$890.00**
No. 709ST256 230 VAC .. **$940.00**

Aerostat XC Self Balancing Ionizing Air Blower

The Aerostat XC Extended Coverage Ionizing Air Blower provides excellent coverage, stability of balance, and rapid charge decay times. The XC neutralizes static across an entire 3' x 6' benchtop area. Three speed fan delivers a controlled air volume of 70, 90, or 120 CFM. **Features:** Inherent Balance ±5V, Covers a 3' x 6' benchtop area, Patented Emitter Point Cleaner, Integrated Heater. Air Volume ranges are 70 CFM (low), 95 CFM (med), 120 CFM (high). 120 VAC. 15-3/8"W x 4-1/2"H x 8-1/8"D. **(USA)**

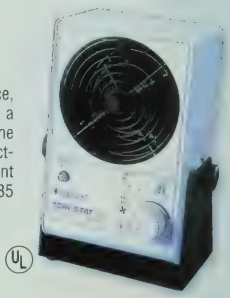
No. 709ST612 120 VAC **$535.00**
No. 709ST667 230 VAC **$579.00**

Air Filter Retainer
No. 709ST017 .... **$10.00**
Air Filter (Pk. of 6)
No. 709ST810 .... **$15.00**

XC Pedestal Mount
No. 709ST282 .... **$59.00**
Air Filter Kit
No. 709ST281 .... **$55.00**

Replacement Air Filter
No. 709ST059 .... **$15.00**

Aerostat PC Self Balancing Compact Ionizing Air Blower



Small, quiet, and lightweight, yet uncompromising in performance, SIMCO'S Aerostat PC provides superior static charge decay rates over a targeted work surface area. The PC provides optimum protection from the destructive effects of ESD and prevents contaminants from being attracted to surfaces. **Features:** Inherent Balance ±5V, Patented Emitter Point Cleaner, Integrated Heater, Covers an area of 1 ft. x 5 ft. Air volume is 35 - 70 CFM. 120 VAC. 5.5"W x 8.625"H x 3.25"D. **(USA)**

No. 709ST367 120 VAC..... **$459.00**
No. 709ST368 230 VAC..... **$499.00**

Top Gun Ionizing Air Gun

Simco's Top Gun is a high performance ionizing air gun for electronics manufacturing and cleanroom applications. Balanced to ±15V, the Top Gun features high blow-off force to provide efficient cleaning and rapid static charge decay. A .01 micron filter at the exit of the gun ensures that the air is clean. All functionality is built into the gun: a flow control valve, a balance adjustment for calibration, and a two-level LED which indicates both power and ionization. The gun and cable are static dissipative and a hanger is provided for easy mounting. The gun body is lightweight, and features a light touch trigger that activates both airflow and ionization. Compressed air input up to 100PSI, operates on 120 VAC. 5.20"W x 6.45"H x 3.35"D. **(USA)**

No. 709ST105 7' Cable 120 VAC..... **$719.00**
No. 709ST106 7' Cable 230 VAC..... **$760.00**
No. 709ST599 14' Cable 120 VAC..... **$799.00**
No. 709ST600 14' Cable 230 VAC..... **$886.00**

Sidekick Version - Foot pedal activated - Hands free operation.
No. 709ST929 120 VAC..... **$839.00**
No. 709ST005 230 VAC..... **$860.00**

New!

Techni-Stat® 4048A Overhead Ionizing Air Blower

The Techni-Stat 4048A self contained overhead air ionizer is ideal for a wide range of electronic workbench and industrial applications. The unit is highly effective at up to 5' above target and covers a 3' x 6' area with an extremely high density blanket of bi-polar ions. The 4048A features a 3 speed fan control, operator lockout key. Up to 10 units can be daisy chained together and two adjustable mounting brackets enable overhead suspension for vertical or horizontal air flow. Can be mounted on wall or shelf, or placed on a work surface. Air Volume is 150 - 300 CFM. 48"L x 2"W x 6.5"H. **(USA)**

No. 709ST217 120 VAC **$695.00**
No. 709ST218 230 VAC **$735.00**

Techni-Stat® High Mounted Ionization Transport System

The Techni-Stat® High Mount is designed for your safety. Suspended over the workstation with ionized air blowing down over your area to protect you against an ESD event. Covers a wide area, a three-position air speed permits just the right amount of balanced ionized air to flow over your area, without disturbing your product or causing a draft. **Specs:** 120 VAC, 50/60 Hz 1.3 Amps (Fan speed high) 0.8 Amps (Fan speed low); Air volume output: 175-315 CFM; Size: 27.75"L x 6.75"W x 2.5"H. ***One-Year Warranty.*** **(USA)**

No. 335PR510..... **$695.00**

Techni-Stat® VSE 3000 Self Balancing Static Eliminator

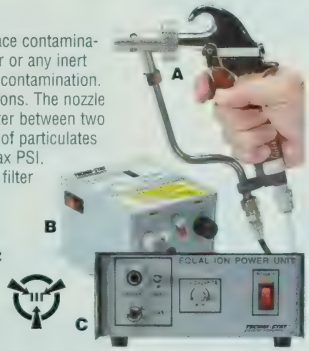
New!

The Techni-Stat VSE 3000 Volume Static Eliminator is an efficient workstation ionizer which effectively eliminates electrostatic charges quickly and reliably. The VSE 3000's variable speed fan and air flow diffuser floods the entire workstation with static eliminating ions for superior performance. **Features:** Self balancing circuit to ±5V, switchable heater, has a variable speed fan which ranges from 80-160 CFM. 120 VAC. 12"W x 6.25"H x 10"D. **(USA)**

No. 709ST300 ..... **$449.00**
No. 709ST302 230 VAC **$479.00**

Air/Nitrogen Ionizing Guns

Specifically designed for neutralizing static and removing surface contamination in non-clean room applications. Use this gun with shop air or any inert gas. An in-line, input filter is required to remove moisture and contamination. This Ionizing Gun meets stringent cleanroom operating conditions. The nozzle assembly houses a 0.45 micron, nonabsorbing, replaceable filter between two rigid stainless steel screens. "O" rings prevent any possibility of particulates bypassing the filter. (Requires power unit.) **Specifications:** Max PSI. 60 (air)/40 (nitrogen); output 4kV; 0.45 micron non-absorbing filter supplied; 8 ft. shielded power cable supplied. **(USA)**



Air/Nitrogen Gun
A. No. 335PR080 ..... **$370.00**
Two Gun Standard Power Unit: 120V, 50/60Hz
B. No. 335PR463 ..... **$262.00**
(220V Available)
One Gun Balanceable Ion Power Unit
For precision cleanroom applications.
C. No. 335PR561 ..... **$262.00**

Dual Combo Wrist and Footwear Tester

New!

The dual footwear and wrist strap tester is powered by 9 Volt battery or optional AC/DC power adapter.

Dual Combo Tester
No. 205ST152 ..... **$445.00**
Dual Combo Tester w/ Stand
No. 205ST220 ..... **$398.00**
Stand Only
No. 205ST245 ..... **$187.50**

2 Speed High Ionization Table Top System

Techni-Stat® Ion Transport System is a self-contained, compact, table-top ionizer capable of producing copious amounts of both positive and negative ions. The two-speed fan permits a gentle flow of ionized air, reaching a distance of six feet. A charged object, when passing through the ionization field, becomes neutral instantaneously. **Specs:** 120VAC, 50/60 Hz; Size: 7.25"W x 8.5"H x 4.5"D: Air Volume output: 65-105 CFM; self-contained power unit; *meets EOS/ESD S3.1-1991.* Coverage Area: 2' x 6' ***One-Year Warranty.*** **(USA)**
220V Available.

No. 335PR610..... **$399.00**

Techni-Stat® PulseGun 5 Kit

Designed for cleaning and assembly applications where constant or extended usage is required. Its powerful, focused gas/air flow rapidly neutralizes static charges while blowing off dust and contaminating particles attracted to the product surface. **Specs**: Discharge Time: <2 sec. at 6"; Cable Connector: 7'; Gas Tube: 1/4" OD, 3/16" ID Polyurethane; Air/Gas Supply: Inlet pressure 5 PSI min, 100 PSI max. Supplied with Airflow Controller No. 5050870. 120 VAC. **(USA)**

No. 709ST870 Kit..... **$619.00**

SPI Self-Balancing Ionizer

Compact, portable and lightweight ionizer neutralizes your entire work station. **Features:** Stable DC output; automatic operation and shutdown; Visual and audible alarms; Current limited emitters; Self-Monitoring; HI and LOW adjustable fan speeds; Select heated airflow; Multi-position bracket mountable on wall, table top or overhead; Provides safe, rapid static decay over entire work station; Provides the latest ESD/EOSD Standards. 110V/60Hz. Size: 5"W x 8"H x 7.5"D

No. 691ST450 ..... **$496.40**

3M 718 Static Sensor

3M

This is designed to measure static voltages on objects and surfaces arising from electrostatic charge buildups, and can help identify ESD trouble-spots. Equipped with three membrane switches which control different functions. The RANGE/ZERO button performs two functions: when pressed momentarily it switches between the two measurement ranges of 0-2,000V and 0 - 20,000V, and if held for longer than 3 seconds, it resets the voltage display to 0V. Has a ranging system to assist you in making quick and easy measurements, and makes measurements accurate to ±5%. **Features:** Digital, 3.5 LCD display. **Specs:** Power Requirements: (1) 9V alkaline battery; Measurement Ranges: 0 - 2kV low range, 0 - 20kV high range; Voltage Output: 1/1000 low range, 1/10,000 high range. ***One-Year Warranty***

No. 105ST718 ..... **$552.00**

3M 718A Air Ionizer Test Kit

3M

When used with the 3M™ 718 Static Sensor, the Air Ionizer Test Kit can provide periodic verification of air ionizer performance and consists of a charge plate and a charger. The charge plate slides over the housing of the 718 Static Sensor. Placing the 718 Static Sensor in the airflow of an air ionizer allows for measurement of the ionizer's offset balance. The charger can be used to deposit an electrostatic charge on the plate. **Specs:** Charge Plate Assembly: Per ESD Association Draft Standard D3.3; Charge Plate Bracket: 1"H x 3.1"W x 4.25"L; Charger Wt: 6 oz.; Charger Power Requirements: (1) 9V Battery; Charger Output: Pos: 1250V ±5%, Neg: -1250V ±5%. ***One-Year Warranty.***

No. 105ST719 ..... **$195.00**

3M 701 Test Kit For Static Control Surfaces

3M

The kit contains all of the necessary components to make testing mats & other surfaces simple & accurate. Scales are both color-coded and numbered. Separate scales and test settings for measuring resistance-to-ground at the test voltages (10V & 100V), continuity, and open circuit test voltage. Test leads are 10 ft. long and banana plugs are sheathed for added safety. Two types of grounding clips, a wide jaw insulated bulldog clip, non-insulated alligator clip, manual and case. ***One-Year Warranty.***

No. 780ST701 ..... **$641.05**

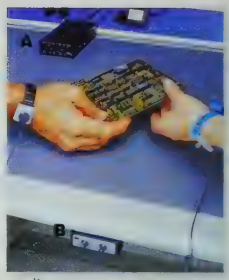
3M 960 Mini Air Ionizer

The Model 960 Air Ionizer is a small and versatile DC Ion omission blower (3.3" x 4.5") for local area ionization. Maintains a balance flow (± 20V) of ionized air. The 960 runs off of low-voltage 24VAC power, that can be supplied by the 3M 960X Wall Transformer (sold separately). **(USA)**

No. 105ST960 Mini Air Ionizer **$350.00**

No. 105ST961 Wall Transformer **$40.00**

3M-724 Wrist Strap Workstation Monitor



Designed to monitor the operation of the wrist strap grounding systems of two operators. Uses a DC current source to measure a loop electrical resistance providing you with a continuous monitoring system that will detect electrostatic discharge. Includes a Remote Jack and managing hardware. **(USA)**

A. No. 105ST427 ..... **$167.20**

3M-733 Dual Remote Splitter Kit

This Dual Remote Splitter Kit is used in conjunction the Wrist Strap Workstation Monitor. Provides the capability to ground and monitor two operators at separate workstations. **(USA)**

B. No. 105ST733 ..... **$46.50**

3M 727 Worksurface Monitor

Designed to monitor the operation of a single worksurface grounding system, the 727 continuously monitors the ground connection of a worksurface to a predetermined electrical ground. If the resistance of this loop exceeds 10MΩ, a red lamp will illuminate with a continuous audible alarm. **Specs**: test voltage 9 VDC to 6 VDC; monitor activated by plug or wrist strap ground cord; mounts easily to ESD worksurface. Battery Powered. **(USA)**

No. 105ST727 ..... **$76.00**

3M Wrist Strap & Footwear Testing System

745 Wrist Strap System

Portable or mounted on a wall, the 745 checks the straps while on the wearer's wrist. **Specifications: Dimensions:** 6.25"L x 3.75"W x 1.25"D (158 x 95 x 33mm); **Wt:** 7 ozs. (200g) without battery; **Power Supply:** 9 volt - Alkaline type; **Test Voltage:** 20 volts DC, ±1 volt (open circuit); **Resistance:** Lower limit - 750KΩ 750KΩ to 10MΩ; **Ranges**: Upper limits (wrist strap) - 2, 5, 10, and 35MΩ.

No. 780ST745 ..... **$218.45**

No. 105ST745 NIST Certified **$341.00**

740 Wrist And Foot Strap System

Designed for wall mounting in your facility, the 741 Wrist Strap Tester specifications are: **Dimensions:** 7.48"L x 5.43"W x 2.09"D (190 x 138 x 53mm); **Wt:** 15.75 ozs. (450g); **Supply:** 24 volts DC; **Test Voltage** 20 volts DC, ±1 volt (open circuit); **Resistance:** Lower limit - 750KΩ; **Ranges:** Upper limits (wrist strap) - 2, 5, 10, & 35MΩ. Foot plate sold separately. See below.

No. 780ST740 ..... **$396.40**

741 Foot Plate Tester

Optional, constructed, rugged stainless steel in a molded plastic base, you connect the 741 Shoe Electrode which is a test plate to the 740. **Size:** 20" x 16" Upper limits (footwear) -10, 35, 50, and 100MΩ. **(USA)**

No. 780ST741 ..... **$102.45**

Air Gun

3M 980 Ionized Air Gun

Excellent tool for blowing particulate contamination off of any surface. A charge of 1000V is reduced to less than 100V in less than a second. The Model 980 is completely self-balancing, no adjustment or calibration is needed. It maintains balance to within ±30V of 0V (at a distance of 6") The air line filter and the emitter points at the tip of the hand unit are the only replaceable parts and can be changed in just seconds without any special tools. Optional footswitch for "hands-free" operation.120V, 50/60 Hz, 32W. (*230 VAC Available.*)

No. 105ST900 Ionized Air Gun **$748.50**

No. 105ST901 Wall Transformer **$36.25**

No. 105ST902 Air Filter (3/Pk.) **$82.50**

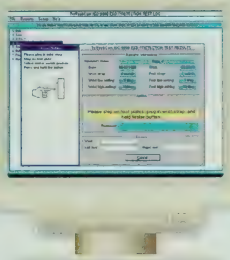
No. 105ST903 Footswitch **$75.00**

Techni-Stat® Deluxe Surface Resistivity Meter

Conveniently check static control products: such as anti-static bags, static dissipative mats and conductive work surfaces. *Conforms to ASTM-D257.* **Specs:** Automatic from 10^5 Ω/sq. to 10^{12}Ω/sq.; Accuracy ±1/2 decade; Display: LED's one per decade; Power: 9V Replaceable or Rechargeable battery; 4.25"W x 1.8"D x 5.5"L. Case included. **(USA)**
No. 205TE100 ..... **$306.45**

Surface Resistivity Meter

This pocket size tester is battery operated and easy to use without any external cables or test probe. Tests auto ranging from 10^5 to 10^{15} ohms per square with ±1/2 decade accuracy. Test Display: 6 LED one per decade. **(USA)**
No. 205TE600 ..... **$250.00**



ACL 750 Strap/Heel Ground Combo-Tester

Measure electrical resistance of writs straps, and each heel grounder simultaneously or individually. Uses any standard RS-232 communications port, and dual DB9S (Female) connector RS-232 cable to monitor and analyze wrist straps and heel grounders. **Specs:** resistance range; wrist strap: 500kΩ to 50KΩ; Heel/Toe/Shoe: 500kΩ to 75MΩ. **Includes:** foot plate, wall mounting display, dual path foot plate, toggle switch selector, RS-232 computer interface, NIST/ECC limits, and micro-processor controlled. ***One-Year Warranty.*** **(USA)**
No. 106TE750 ..... **$1060.00**

Just Touch To Test!

ACL 600 Stati-Check

Now, test how much static a person is carrying. Determine the effectiveness of wrist straps, cords, bonding plugs, custom floors, spray coatings, garments, chairs, and more. Touch to test, the LCD indicates 0-19,990 V ±. **Features:** 9V alkaline battery and low indicator. Operating Range: 40°F to 120° F. Accuracy: ±5%. Wt.: 220g.
No. 106ME600..... **$368.25**

Intercept Static Indicator

Compact, easily carried in shirt pocket, lab coat or Field Service Kit. Built-in stand for bench top operations. Quick-to-read sensitivity curve located inside case for quick reference. Battery operated (supplied) Extremely economical tool for indicating electrostatic charges. Will produce an audible tone when static charges are detected. Continuous monitoring of the work station is possible by using the built-in stand and placing the intercept on the work surface.
Specs: Dimensions: 2"W x 4"H x 5/8"D. Power: Battery Operated. Wt.: 2 oz. **(USA)**
No. 702TE325 ..... **$59.00**

ACL 350 Digital Static Locator

Indicate electrostatic field voltage and polarity on charged surfaces with the Digital Static Locator. This easy-to-use tester comes equipped with a power ON/HOLD button and zero button. LCD display automatically updates three times per second. **Features:** measures static fields up to 20,000V. Accuracy ±10%; NIST certificate included. **Includes:** a 9V battery power supply. ***One-Year Warranty.*** **(USA)**
No. 106TE350 ..... **$495.00**

ACL 386 Resistance Indicator

The indicator uses 11 colored LED's for wide range resistance measurement applications to measure surface resistance in accordance with ASTM D-257, resistance to ground (Rtg), and resistance point to point (Rtt). **Features:** 10^3 -10^{12}Ω/square per ASTM in one decade increments. 10^2 -10^{11}Ω; convenient resistance point to point (Rtt) auxiliary connections: 2 ea. Female banana for resistance range performance verification and direct point-to-point resistance without electrodes: over range indicator LED; safe test voltage and current: nominal 9 volts and 0.006 µA to 1.0 mA; and leather case. ***One-Year Warranty.*** **(USA)**
No. 106TE386 ..... **$495.00**

Static Locator/Meter

Four easy steps to inexpensive static location. Simple to use to alert you of static charges: 1) Press ON button. 2) Touch any grounded metal object to discharge your body. 3) Point the aperture toward a grounded surface and press the ZERO button twice. 4) Aim the instrument toward the target surface at a distance of one inch. Easy to read voltage and polarity on the display. **Specs:** Normal range: 20Kv @ 1"; Extended ranges: 40Kv @ 4"; Accuracy: 10%; Battery: 9-volt included.
Two-Year Warranty. **(USA)**
No. 335PR001 ..... **$450.00**

Measures Resistivity, Temperature and Humidity!

ACL 800 Megohmmeter Test Kit

This kit is designed to test all conductive, anti-static and static dissipative surfaces for electrical resistivity/resistance according to EOS/ESD, CECC, ANSI and UL test procedures. **Features**: Resistivity, temperature and humidity measurements; 10^2 - 10^{12}Ω/sq. test range; 10V/100V test ranges; NIST traceable; Replaceable probes; Relative humidity 10% to 90% RH; Temperature: 32°F to 100°F; LCD alpha-numeric scale–no LED's. **Includes:** Meter; two 5 lb., 2.5" RTT, RTG disk probes; two 3" parallel surface resistivity probes; AC adapter and carrying case. Uses a 9V DC or nickel cadmium rechargeable battery. ***One-Year Warranty.*** **(USA)**
No. 106TE800 ..... **$995.00**

Economical Static Detector!

300B Electrostatic Locator

This pocket-size monitor measures static charges from zero to 30,000 volts. Designed to do close-in repetitive reading. **Features:** "Quick-Zero" function for instant rezero; Low Drift; Repeatability ±1%, Accuracy ±10%; and Battery Test. Uses standard 9V battery. **(USA)**
No. 106ME010 ..... **$369.00**
No. 106AC013 Carrying Case **$23.00**

Wrist Strap Tester Station

New!

This all-in-one testing station is ideal for use in operations where frequent and quick testing of resistance is required. Includes complete test module and stand with a stainless steel foot plate. Use the 9V DC alkaline battery or a 9V DC power supply transformer. Wrist strap tolerance ranges: low, 500kΩ±11%; high, 10MΩ±5%. Footwear tolerance ranges: low, 900kΩ±8; high, 35MΩ±6%.

No. 691ST220 Complete wrist strap tester station with stand **$295.00**

No. 691ST210 Wall-mounted test station complete/No stand **$289.00**

No. 691ST300 Wall-mounted sign w/Meter - no test stand or heel plate.... **$212.50**

Test Station

The wrist band and heel strap tester is a dependable, easy-to-use tester for personnel grounding devices. Available as a 750k to 10 megohm tester. To test the wrist strap, place strap on wrist, connect grounding cord to tester and touch plate; heel grounder, step on metal footplate and touch the contact plate. Easy-to-hear tone indicates pass; visual signal indicates hi or low fail. Yellow wall-mountable sign completes the system.

No. 679ST012 ..... **$243.95**

Wrist Strap Tester

New!

This portable battery operated wrist strap tester tests wrist straps and coil cords from 750-50MΩ. Designed with visual and audible features, low battery indicator and uses 9V batteries. **(USA)**

No. 758ST820..... **$137.75**

Dual Combo Tester with Stand

New!

This Dual Combo Tester station is made to take the rigors of the factory environment. Made of solid aluminum floor plate 15" x 18" secured to a solid steel welded 36" high-test frame. Dual Plate system has two solid aluminum plates 7" x 18". **(USA)**

No. 758ST824..... **$364.80**

Hakko Wrist Strap Tester

Simply connect the grounding wire and press the pad. If the grounding system is safe, the green "GOOD" lamp will light up and an audible signal will be heard. Can be used anywhere to quickly and easily check a variety of grounding systems. Ensures employee safety. Eliminates product defects caused by static electricity. Unit quickly & simply checks all the following: 1) Wrist straps & grounding wires. 2) The contact resistance between the wrist strap and the skin. **Specifications:** Indication Calibration Resistance LOW, <500KΩ; GOOD, 500KΩ-10MΩ; HIGH, 10MΩ. Outer dimensions: 3.1" x 4.6" x 1.5". Power: 9V battery. Grounding wire: 6.2'.

No. 821ST498..... **$102.90**

Handheld Electrostatic Fieldmeter

Use for locating and measuring static charge potentials in a handy pocket size. Features both SAMPLE and HOLD measurement modes that allow measurements to be made in places that would be difficult to reach or see with other instruments. A ranging light system assures accurate and repeatable measurements. Conductive case and ground snap facilitate grounding for accurate measurement. **Specs:** Range: 0 to 19.99 kV for either polarity at a distance of one inch; Accuracy: ±5%; Response: 5 Hz at the analog output; Analog Output: Subminiature jack provided, ±1V corresponds to ±10kV; Environmental: Operates at 0°-50° C and 0-85% RH. Includes 9V Battery.

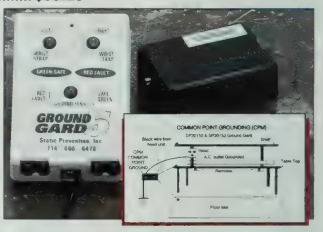
No. 709ST408 ..... **$525.00**

Wrist Strap Tester

This wrist strap tester is a quick check to verify that the wrist strap assembly is within a predetermined resistance range. Unit has no internal or external adjustments, therefore units are verified to given acceptable ranges between 0.5 MΩ to 10 MΩ (U.S. Standards) and 0.9MΩ to 35MΩ (European Standards). After choosing the proper setting, place banana plug of the wrist strap into the female receptacle located at the bottom of the unit. Take the band and put it onto your wrist. With your finger, press down on the round metal plate. If you are in the set range, a buzzer will sound and a green LED will illuminate. If you are not in the set range, a red LED will illuminate and the buzzer will continue to sound. Low battery triggered at six volts.

No. 691ST110..... **$89.25**

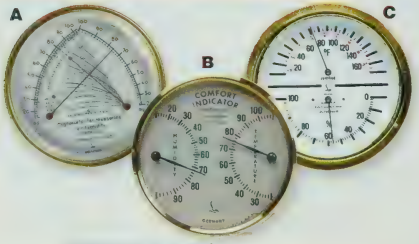
Ground Gard 5



This unit monitors two wrist straps and ground. Each system comes with two wrist strap remotes that are easily mounted using Velcro underneath the front edge of the work bench. The unit utilizes a single-wire wrist strap. Power requirements: 8 to 12V D.C. 200mA output with special 3.5mm male jack. Alarm: Piezo-Electric Audible Alarm Fault (85dB). Resistance Range: 1Ω to 10MΩ ±7%, factory preset. No internal or external adjustments. **(USA)**

No. 691ST152..... **$224.60**

Humidity & Temp Meters



A. Moisture Content Meter

Designed to provide you direct readings without referencing complicated tables. Meter displays: Relative Humidity; Dew Point; Saturation Humidity; Saturation Deficit; Night Frost Probability; Comfort Range. Brass-plated aluminum case hangs like a picture. 3.5" Dial x 4" OAL. ***One-Year Limited Warranty.***

No. 867GA003 ..... **$132.50**

B. Comfort Indicator Meter

Use where RH and Temperature are critical. Read relative humidity 10% to 100% and temperature +20° to 110°. Brass-plated, easel back allows use at your workstation or desk, or hang on a wall. 3.75" OAL.

No. 867GA801..... **$90.00**

C. Hygrometer &Temperature Indicator

Shows relative humidity and temperature in both Fahrenheit & Centigrade at a glance. Large 5" dial. ±3° accuracy. The dial indicates 0 to 100% relative humidity. Solid brass with color differentiated dial with black numbers and lettering, red tipped pointer, casing is drilled for wall mounting. 6" OAL.

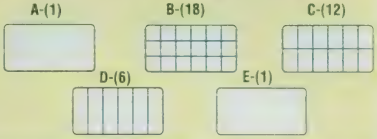
No. 867ME012 ..... **$137.50**

For MOS/CMOS Chip Storage!

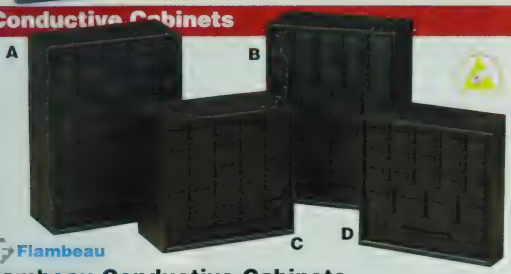
Conductive Utility Boxes

These non-corrosive, highly-durable boxes are ideal for a wide variety of static sensitive microprocessor-based products. Black polypropylene, surface resistivity 10^3-$10^5\Omega$/sq.– 8"L x 4-1/8"W x 1-3/16"D. *Note: Line Drawings Indicate Compartment Configuration.* ***OTHER SIZES AVAILABLE - CALL***

A. No. 674ST072 1 Compartment **$4.90**
B. No. 674ST074 18 Compartments .. **$4.90**
C. No. 674ST076 12 Compartments .. **$4.90**
D. No. 674ST078 6 Compartments **$4.90**
E. No. 674ST520 3" x 3" x 1-1/4" **$2.40**



Conductive Cabinets



Flambeau

Flambeau Conductive Cabinets

Each cabinet comes with a static-safe ground wire, carbon-filled copolymer shells and drawers. Cabinets are durable, rustproof and dent-proof. Conductive dividers are available. Surface Resistivity 10^3 - 10^6 ohm/sq. Volume Resistivity 10^3 - 10^5 ohm/sq. Conductive systems can be connected to a ground connection provided with a pre-resistance of 1 MΩ 0.5W to protect users against currents of more than 5mA. *Meets DOD-HDT3K-263.*

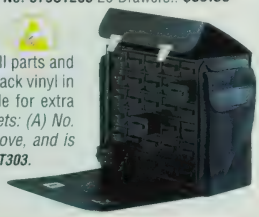
12"W x 6"D x 16-1/2"H. Wt: 22 Lbs.
A. No. 379ST045 45 Drawers **$65.10**
B. No. 379ST026 26 Drawers.. **$64.45**

12"W x 6"D x 11-1/4"H. Wt: 16 Lbs.
C. No. 379ST303 30 Drawers.. **$69.25**
D. No. 379ST200 20 Drawers.. **$69.30**

Kit Bag For Conductive Plastic Cabinets

The Kit Bag is the sensible way to carry small parts and tools. Made from durable, luggage quality, black vinyl in a leather-grain finish, the Kit Bag is lockable for extra security. Case is not conductive. (*Fits cabinets: (A) No. 379ST200 or (B) No. 379ST303, shown above, and is sold separately.*) ***Shown with Cabinet No. 379ST303.***

Carrying Case Only
No. 117CA060..... **$50.15**



Rototower For Cabinets

Holds your choice of 16 each 379ST026. 379ST045. 70" Tall, Uses 3 sq. ft. 16* *(Cabinets sold separately.)*

No. 379ST161 ..... **$266.65**
** Holds your choice of 16 each. 379ST026 or 379ST045.*

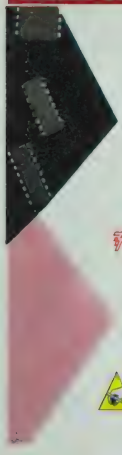
New!

Akro Mils Conductive Part Bins

Static dissipative qualities won't wear or wash away on these conductive parts bins. The protection is molded-in for a lifetime of use. Low-sloughing containers have only 2% carbon black content and heat resistant to 300°F. Surface resistivity of 10^6 - $10^9\Omega$/Sq., *Meets ASTM D-257.* **(USA)**

No. 128ST0220	6-3/4"L x 3-7/16"W x 2-13/16"H	**$6.75**
No. 128ST604	10-1/4"L x 4-3/8"W x 4-3/4"H	**$16.30**
No. 128ST234	14-1/16"L x 4-3/8"W x 4-3/4"H	**$21.40**
No. 128ST235	10-1/4"L x 10"W x 4-3/4"H	**$25.10**
No. 128ST602	14"L x 6-9/16"W x 6-3/4"H	**$37.95**
No. 128ST522	14"L x 14-3/4"W x 6-3/4"H	**$60.20**
No. 128ST255	9-3/4"L x 15"W x 4-3/4"H	**$41.25**

Techni-Stat® Foams



Conductive Foam

This conductive foam will protect devices from static and physical damages. 24"L x 36"W

Low Density			High Density		
No. 205ST221	1/4"	**$11.40**	**No. 205ST134**	1/4"	**$14.95**
No. 205ST238	3/8"	**$13.10**	**No. 205ST338**	3/8"	**$23.50**
No. 205ST1205	1/2"	**$16.50**	**No. 205ST031**	1/2"	**$29.65**
No. 205ST127	3/4"	**$23.95**	**No. 205ST375**	3/4"	**$35.35**
No. 205ST011	1"	**$29.00**	**No. 205ST301**	1"	**$45.85**

TECHNI-STAT

Anti-Static Foam

Pink anti-static polyethylene resin. This foam, without free carbon, provides superior protection to preclude static damage, with none of the problems encountered in the use of carbon-filled foams.
12"L x 12"W x 1/4"T.
No. 270ST224 ..... **$1.25**

ESD Watches

Men's & Women's Static Grounding Alarm Chronograph!

ESD-WATCHER™ II Chronograph

A specially-adapted CASIO™ multifunction digital watch, with safety band featuring an insulated snap, 10' coiled ground cord with 1 MΩ resistor, banana plug and alligator clip. Drains static charge in <2 msec. Meets all EOS/ESD standards.
18-Month Warranty.

No. 635ST246 Men's..... **$49.95**
No. 635ST247 Women's **$54.40**

ESD Casio® Quartz Watch

New!

This ESD Casio® Quartz water resistance watch is designed with a rubber seal to keep out water and dust. Constructed with an adjustable durable wristband. that can withstand normal use. Your watch can be easily cleaned with a dry soft cloth or a soft moistened cloth. Resitivity ≤ 1000 Ω/sq. (Ground cord not included). (Malaysia)

No. 691ST012 Red Watch **$32.50**
No. 691ST013 Black Watch..... **$32.50**

PROTEKTIVE PAK®

S.D.C. Impregnated Static Dissipative/Conductive Corrugated Containers
• 100% recycled paperboard and is 100% recyclable • Surface resistivity of 10^7-10^8 Ω/sq.
• Buried shielding layer of <10^4 Ω/sq. • Carbon layer buried to minimize sparking

Circuit Board Shippers

200#, B-FLUTE, Impregnated conductive liner – both sides. Shipped assembled with static dissipative, polyurethane foam. **(USA)**
Call for higher quantity pricing.

TT No.	Inside Dim. L x W x D	No. per Case	PRICE/ea.
211ST112	6-3/16" x 6" x 1-1/2"	62	$4.00
211ST304	7" x 5-1/2" x 1-1/2"	69	$2.90
211ST022	7" x 5" x 2-1/2"	36	$3.40
211ST024	9" x 7-1/2" x 2-1/2"	22	$4.95
211ST229	9" x 9" x 1-1/2"	20	$5.40
211ST205	10-1/2" x 8-1/2" x 1-1/2"	23	$6.50
211ST026	10-1/2" x 8-1/2" x 2-1/2"	15	$5.60
211ST028	12-1/2" x 10-1/2" x 1-1/2"	19	$5.70
211ST030	12-1/2" x 10-1/2" x 2-1/2"	10	$7.20
211ST032	14-7/8" x 6-5/8" x 2"	17	$5.70
211ST211	15-1/2" x 12-1/2" x 1-1/2"	12	$7.65
211ST034	15-1/2" x 12-1/2" x 2-1/2"	8	$11.20
211ST036	16" x 12-1/4" x 3-1/2"	6	$12.10
211ST235	16" x 15" x 3"	5	$15.25
211ST038	18-7/8" x 17-5/8" x 1-3/4"	5	$12.30
211ST044	20-1/2" x 15-1/2" x 2-1/2"	4	$10.80

Mini Protektive Pak™

Small component shippers. Boxes shipped assembled with static dissipative, polyurethane foam laminated to top; removable, conductive, cross-link shunting, polyethylene foam in bottom. *Other sizes available, call for details.*

TT No.	Dimensions L X W x D	Case	PRICE/Ea.
211ST090	2-1/2" x 1-1/4" x 1"	300	$1.30
211ST096	3-7/16" x 2-1/8" x 1"	160	$1.55
211ST092	3-1/2" x 1-1/4" x 1"	240	$1.35
211ST098	3-3/4" x 3-3/4" x 1"	92	$2.50
211ST102	4-1/8" x 3-1/6" x 1"	104	$2.75
211ST319	4-3/8" x 4-3/8" x 1"	50	$4.00
211ST094	4-1/2" x 1-1/4" x 1"	167	$1.55
211ST100	7" x 3-1/2" x 1"	50	$2.75
211ST121	12-7/8" x 4" x 1"	50	$8.75

Open Bin Boxes

200#, B-Flute, Impregnated, conductive liner – both sides. Shipped flat - all bins are bundled in 25's. **(USA)**
Other sizes available, call for details.

TT No.	Inside Dim. L x W x D	No. per Case	PRICE/Ea.
211ST300	5-34" x 3-3/4" x 2-11/16"	200	$3.40
211ST250	12" x 2" x 4-1/2"	175	$2.75
211ST252	12" x 4" x 4-1/2"	150	$2.85
211ST254	12" x 6" x 4-1/2"	150	$3.45
211ST256	12" x 8" x 4-1/2"	125	$3.95
211ST258	12" x 12" x 4-1/2"	125	$4.25
211ST260	18" x 2" x 4-1/2"	175	$3.45
211ST642	18" x 8-1/4" x 4-1/2"	125	$3.66
211ST264	18" x 6" x 4-1/2"	100	$3.85
211ST266	18" x 8" x 4-1/2"	100	$3.95
211ST268	18" x 12" x 4-1/2"	125	$4.55
211ST242	24-3/4" x 2-1/4" x 4-1/2"	150	$3.80
211ST042	24-3/4" x 4-1/4" x 4-1/2"	125	$5.65
211ST142	24-3/4" x 6-1/4" x 4-1/2"	100	$4.80
211ST144	24-3/4" x 8-1/4" x 4-1/2"	100	$5.45
211ST314	24-3/4" x 12" x 4-1/2"	100	$7.90

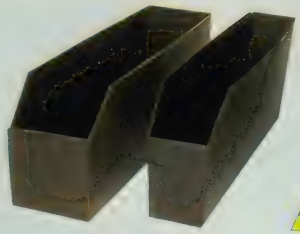
In-Plant Handlers

200#, B-Flute, Impregnated, conductive liners– 2 sides. In-Plant Handler part numbers consist of box, lid, and partitions. Boxes have triple ends, double sides, double bottoms, & box requires no tape, glue or staples for assembly. Box can be easily knocked down to store flat without damaging the box. The partitions are rolled over for greater durability & rigidity. **(USA)**

TT No.	Cell Size D x L x Thickness	No. of cells	PRICE/Ea.
211ST411	3-1/2" x 4-3/4" x 3/4"	30	$23.25
211ST412	3-1/2" x 7-1/4" x 3/4"	20	$21.30
211ST076	5-3/8" x 2-1/4" x 3/4"	60	$38.75
211ST310	5-3/8" x 4-3/4" x 3/4"	30	$26.00
211ST320	5-3/8" x 14-3/4" x 1-3/4"	5	$21.80
211ST392	5-7/8" x 6-1/4" x 1-5/8"	20	$46.70
211ST446	6" x 4-3/4" x 1"	40	$42.50
211ST054	7-1/4" x 7-1/4" x 3/4"	20	$36.00
211ST056	7-1/4" x 7-1/4" x 1-3/4"	10	$18.75
211ST058	7-1/4" x 14-3/4" x 3/4"	10	$33.20
211PR468	8" x 4" x 1-1/4"	40	$54.80
211ST448	8" x 4-3/4" x 1"	40	$40.30
211ST449	8" x 6-1/2" x 1"	30	$37.90
211ST404	8" x 6-1/2" x 2-1/4"	15	$30.60
211ST450	8" x 10" x 1"	20	$35.45
211ST452	10" x 4-3/4" x 1"	40	$46.95
211ST403	12-3/8" x 7-1/8" x 2-3/8"	10	$31.85
211ST407	12-5/8" x 10" x 1"	20	$44.00
211ST294	12-5/8" x 20-1/8" x 2-1/4"	5	$31.25
211PR452	12-3/4" x 16" x 1"	10	$46.55
211PR434	14-3/4" x 4-5/8" x 1"	30	$58.75
211ST445	15-1/4" x 6-1/2" x 1"	30	$55.55
211PR457	17-1/8" x 16" x 1"	10	$62.10
211ST408	18-1/4" x 20" x 1"	10	$51.70

Need another catalog? Call us today...
1-800-505-TOOL

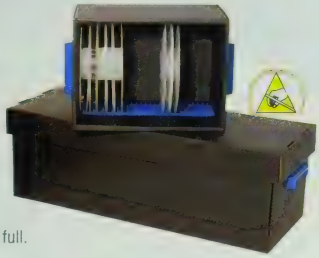
Reel/Dip Tube Bin Boxes



Designed to safely store both reels and Rail/DIP tubes in the same bin box. This bin box may be used for storing, kitting, or transporting during work-in-process operations.

No. 211ST920 18"L x 2"W x 9"D **$5.95**
No. 211ST921 18"L x 4"W x 9"D **$6.55**
No. 211ST922 18"L x 6"W x 9"D **$7.15**
No. 211ST925 24"L x 6"W x 9"D **$8.00**

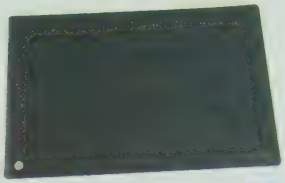
Reel Storage Containers



These reel storage containers are constructed with double sides and ends for greater durability. They have specially designed conductive plastic indexing ribs to prevent the reels from rolling around when stored or falling over when the container is partially full. (Comes fully assembled)

No. 211ST4131 (13") 13-1/2"L x 12"W x 13-1/4"D **$42.30**
No. 211ST4771 (7") 12"L x 7-1/4"W x 7-1/4"D **$28.55**
No. 211ST4772 (7") 20"L x 7-1/4"W x 7-1/4"D **$43.15**

Tek-Mate™ Work Surface



This portable work surface is lightweight, thin and durable and can be used to transport unsoldered circuit boards. Fits most transportation carts. Permanently static dissipative foam (shuntable) laminated. Includes 3/8" male grounding snap.

12" x 18", 12/case
No. 211ST1218 ..... **$145.20**

18" x 24", 6/case
No. 211ST1824 ..... **$123.10**

Your Disposable Workstation!

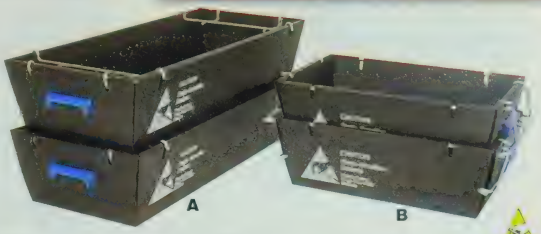
Pro-Mat™

Tired of replacing rubber and vinyl mats damaged from resins, epoxy, hot solder irons and other harsh chemicals? Pro-Mat is your inexpensive answer! Use Pro-Mat for grounding shelves, cart surfaces, work stations, field service kits, operations, and more. *Other sizes available, call for details.* **(USA)**

No. 211ST2436 23-1/2" x 35-1/2" **$8.85**

Cart and Shelf Mats

TT No.	L X W x D	PRICE/Ea.
211ST1260	11-3/4" x 59-1/2" x 0.06"	$1.30
211ST2460	23-1/2" x 59-1/2" x 0.06"	$1.55
211ST2448	23-1/2" x 47-1/2" x 0.06"	$1.35
211ST1836	17-1/2" x 35-1/2" x 0.06"	$2.50

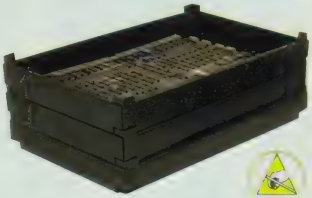


Stackable/Nesting Totes

These totes are a popular method to transport ESD-sensitive components to the assembly area and empty kitting totes back to the store room for refilling. This extremely durable tote is made with ESD handles and is available with or without a steel perimeter frame and rotating steel stacking arms. **(USA)**

Type	TT No.	Steel Frame	O.D. Top L x W x D	I.D. Bottom L x W	PRICE
A	211ST724	Yes	18" x 12" x 6"	15" x 8-3/4"	$33.00
A	211ST726	Yes	27-1/4" x 12" x 6"	24-1/2" x 8-3/4"	$26.70
A	211ST728	Yes	27-1/4" x 18" x 6"	24-1/2" x 15"	$27.60
B	211ST704	No	18" x 12" x 6"	15" x 8-3/4"	$13.30
B	211ST706	No	27-1/4" x 12" x 6"	24-1/2" x 8-3/4"	$14.90
B	211ST708	No	27-1/4" x 18" x 6"	24-1/2" x 15"	$18.75

Stacking Board Handlers



These trays can stack and nest together for safe handling and transporting your ESD sensitive circuit boards. Includes permanently static dissipative foam laminated to bottom.

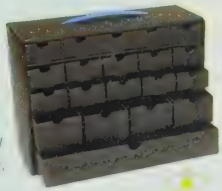
No. 211ST0100 18"L x 11-3/8"W x 1-3/4"D **$10.90**
No. 211ST200 24"L x 18"W x 2-1/8"D **$19.25**

Tube Handlers

Here's an economical and efficient way to store and transport DIP Tubes and Rails. Each individual cell has an extender tab which may be labeled to identify the contents. The tube handler may be rotated on the shelves to view the extender tabs either vertically or horizontally. **(USA)**

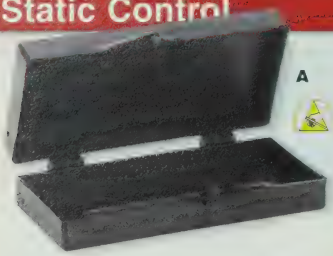
TT No.	Outside Dim (W x L x D)	# of cells	Cell Dim (W x L x D)	PRICE
211ST602	12" x 6" x 20"	10	1-7/8" x 1-7/8" x 20"	$35.15
211ST604	12" x 12" x 20"	25	1-7/8" x 1-7/8" x 20"	$41.45
211ST605	12" x 12" x 24"	25	1-7/8" x 1-7/8" x 24"	$47.70
211ST606	24" x 12" x 20"	50	1-7/8" x 1-7/8" x 20"	$50.70
211ST607	24" x 12" x 24"	50	1-7/8" x 1-7/8" x 24"	$58.00

Protektive Pak™ Products

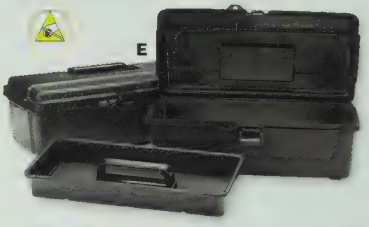


Fully assembled, this 20 drawer, conductive, corrugated cabinet has a permanently static dissipative surface (CDM safe) and buried shielding layer. Three different sizes drawers: 15 small drawers: 5-3/8"L x 2-1/4"W x 1-1/4"D (I.D.); four med drawers: 5-3/8"L x 2-7/8"W x 2"D (I.D.): one large drawer: 5-3/8"L x 12-3/8"W x 2"D (I.D.). Includes permanent ESD handle, and drawer ID labels

No. 211ST020 ..... **$51.75**



Quantity Discounts Available!



Conductive Parts Bin Rack
17.62"L x 18"W x 10"H
No. 780ST4018 ..... $91.20

A. 3M Velostat™ Hinged Containers

2.88"L x 1.19"W x 0.5"D
No. 780ST4021 .. $82.00 100/Pk.
3.88"L x 1.94"W x 0.5"D
No. 780ST4022 $100.00 100/Pk.
2.56"L x 3.5"W x 1.75"D
No. 105ST023 $115.00 100/Pk.
7"L x 3.5"W x 1"D
No. 780ST4024 $117.50 50/Pk.
7"L x 5"W x 1/2"D
No. 780ST4025 $153.75 25/Pk.

B. 3M Velostat™ Single Card Carrier

These injection-molded boxes are lightweight and feature molded pin hinges and interior lined with dissapatic cushion foam.

10"L x 8"W x 1-1/4"D
No. 780ST8520 .. $18.85 Each
12"L x 9"W x 1-1/4"D
No. 780ST8521 .... $23.40 Each
18"L x 17"W x 2"D
No. 780ST8522 .. $47.75 Each
10"L x 8"W x 2"D
No. 780ST8523 .. $21.90 Each

C. 3M Velostat™ Conductive Tray Only

12 Compartments
16"L x 10-3/4"W x 2"D.
No. 780ST4063 ..... $34.70
Tray & Cover (No Compartments)
6-1/2"L x 3-1/2"W x 2-1/2"D
No. 780ST4031 (4031).. **$26.55**
Tray & Cover (No Compartments)
8-3/4"L x 6-1/2"W x 2-1/4"D
No. 780ST4032 (4032) **$31.60**
Tray (No Compartments)
9-1/2"L x15-1/4"W x 2-1/2"D
No. 780ST4061 (4061) **$31.50**
Tray (No Compartments)
13"L x18"W x 1-3/4"D
No. 780ST4062 (4062) **$42.50**

Component Kit Trays

Static-dissipative tray formed from Royalstat™ R69 H.D.P.E. Fits into modular boxes for parts kits. A large variety of sizes, arrangements & accessories are available. Size: 14-3/8"L x 6-5/8"W.

No.	Height	Number of Compartments	Compartment Size Length	Compartment Size Width	Price 1-50	Price 51-99	Price 100+
324ST076	1-3/8	6	4-1/8	2-1/2	$14.25	$13.85	$13.55
324ST072	2-1/4"	9	4-1/8"	1-1/2	$15.00	$14.55	$14.25
324ST115	2-1/4"	12	2-3/4"	1-3/8	$15.00	$14.55	$14.25

D. 3M Velostat™ Conductive Round Containers With Covers

Ideal for static-safe, in-process handling and trans-porting of static-sensitive assemblies.

No. 780ST4011 2.38" Dia. x 0.88"H **$2.10**
No. 780ST4014 4.06" Dia. x 2.34" H.... **$6.30**
No. 780ST4015 3.81" Dia. x 4.69"H **$6.45**

E. Techni-Stat® Tool Box

This molded copolymer tool box can't rust and is suitable for cleanroom use. **Features:** positive action latches; brass hinge and latch pins; molded- in, padlock tabs; and a luggage-style handle. Tray Dimensions: 12-1/4"L x 4-3/4"W x 1-1/2"D. **(USA)**

No. 379ST148..... $30.75

F. 3M Velostat™ Conductive Bins

Use with assembly rack to create an organized, grounded system. Open hopper front for easy access. Molded-in card holder.

4"L x 3.5"W x 2.5"D
No. 780ST4452 ..... $6.30
6"L x 3.38"W x 2.5"D
No. 780ST4453 ..... $8.10
9"L x 4.38"W x 4.38"D
No. 780ST4454 ..... $17.35
11.88"L x 6.62"W x 6.38"D
No. 780ST4456 ..... $36.00
11.88"L x 14.75"W x 6.38"D
No. 780ST4457 ..... $55.65

3M Velostat™ Conductive 4400 Series Tote Boxes

These carbon-impregnated tote boxes have 1/8" thick walls to withstand constant usage and have a volume resistivity of <300Ω /cm. Boxes nest for convenient storage. Molded side slots accept standard dividers. ***(Tops must be purchased separately.)***

A. Tote Box Only

No. 780ST4415 (4415A) 9-1/8"L x 6-5/8"W x 6"D **$13.80**
No. 780ST4423 (4423A) 14-3/8"L x 9-1/8"W x 3-1/2"D. **$17.45**
No. 780ST4425 (4425A) 14-3/4"L x 9-1/8"W x 6"D..... **$19.90**
No. 780ST4428 (4428A) 14-3/4"L x 9-1/8"W x 8"D..... **$25.00**
No. 780ST4432 (4432A) 20-1/4"L x 15-1/4"W x 12"D..... **$51.40**
No. 780ST4435 (4435A) 20-7/8"L x 15-3/4"W x 5"D..... **$37.25**
No. 780ST4438 (4438A) 20-7/8"L x 15-3/4"W x 8"D **$52.65**

B. Tote Box Cover to create Faraday Cage

No. 780ST4252 Lid Fits Tote Box 780ST4415. ..... **$19.85**
No. 780ST4253 Lid Fits Tote Boxes 780ST4425 & 780ST4428 ..... **$25.05**

Insert Cover for Tote Box (For 4423A, 4425A, 4428A) *(Not Shown)*
No. 780ST4225 ..... **$9.70**

Slip-in Interlocking Dividers

No. 780ST330 Fits Box 4423A - Lengthwise x 2.62"H..... **$3.45**
No. 780ST331 Fits Box 4423A - Widthwise x 2.62"H **$2.40**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Conductive Storage Systems

Protects integrated circuits, memory chips, ESDS equipment from static damage. *DOD-HDBK-263*. Each cabinet comes with a static-safe ground wire. Metal frame conductive cabinets are static safe, with 1" ground cord provided. These cabinets are durable, and rust proof. Conductive dividers are available for added storage flexibility.

TT No.	Drawers-(LxWxD)	Cabinet Size-(LxWxD)	PRICE
379ST3030	(30) 1-3/8" x 2" x 5-5/16"	11-1/4" x 12-1/8" x 5-3/4	$96.25
379ST308	(48) 1-3/8" x 2-1/2" x 5-5/16	21-7/8" x 12-1/8" x 5-3/4	$126.65
379ST302	(24) 2-1/4" x 3-1/8" x 5-5/16	21-7/8" x 12-1/8" x 5-3/4	$126.65
379ST301	(8) 2-1/4" x 11" x 5-5/16"	21-7/8" x 12-1/8" x 5-3/4	$126.65
Conductive Dividers			
379ST3552	2" x 1-1/4"-(clear)	48/Pk.	$3.65 /Pk.
379ST6781	2-1/2" x 1-1/4"-(black)	24/Pk.	$4.70 /Pk.

iTOI Chip Holders

Product Material Specifications

Conductive Foam: A high density, non-humidity dependent, volume conductive, non-sloughing (no particulation) cross-linked polyethylene with indefinite shelf-life. Static Decay: Instantaneous; Surface Resistivity: 5.0 x $10^3\Omega$/sq; Surface Resistance: 2000Ω at 3"; Volume ResistivityL 3.5 x 10^2 Ohm-Cm. **(USA)**

Static Dissipating Outer Cover: A clear, permanently charge dissipating polymer film which meets specifications independent of humidity. Surface Resistivity: 10^8 - $10^{11}\Omega$/sq (ASTM D-257); Static Decay: 0.06 Sec; Contact Corrosively: None; Cold Crack: -15°C. **(USA)**

ChipPage™

New!

Provide the ultimate archival storage of Masters, Mods, Revs and samples for any combination of any IC type; for designers, programmers, maintenance, field service, QC control, librarians and installers. Each page measures 8-1/2" x 11" plus 3-ring tab, and will hold up to 64-28 pin DIPs. The chippage has a rear-side, transparent sleeve for documentation, traveler or other product information. Each page has eight single sized cavities lined with conductive foam which can be removed and populated with any ITOI standard insert for SMT or other type of component. Up to five pages will fit in a 3-ring binder to make the ultimate IC and/or electronic component archival system. **(USA)**

No. 457ST800 ..... **$12.95**

ChipTray™

New!

Single unit ChipTray makes an ideal sampling package for any type of IC, regardless of form. A truly UNIVERSAL storage package that will handle a hundred of different IC form in one package. Perfect chipset sleeve for a master cataloging program requiring quick access to samples, master programming chips, MODS and REVs. **(USA)**

No. 457ST100 ..... **$2.95**

Prices in this catalog are effective January 1, 2001. While we attempt to hold prices, we cannot control when our vendors increase prices.
All prices are subject to change without notice.
We reserve the right to correct misprints.

ChipPocket™/SMT

Ideal for in-house and field transport handling applications. This album uses the nesting inserts of our SMT system to provide storage for any SMT component on the market. Holds any LCC, PLCC, SOIC, SO-J, QFP, BGA surface mount IC(s). **(USA)**

No. 457ST004 ..... **$6.95**

ChipAlbum™

The ChipAlbum 400 offers rugged, crush resistant, dust tight storage with great flexibility for storing, archiving, handling and merchandising SMT ICs of any type. Each album has four single sized cavities lined with conductive foam which can be removed and populated with any ITOI standard insert for SMT or other type of component. Each album measures 7" x 10" x 3/4" and will hold up to 32-28 pin DIPs. **(USA)**

No. 457ST400 ..... **$12.95**

ChipSafe™/SMT Nesting Inserts

New!

Nesting Inserts are foam pads with molded pockets the IC components "nest" in. The foam material is a conductive, non-sloughing, non-corrosive, cross-linked polyethylene. Universal design allows SMT component storage of ANY form. All inserts have the same outside dimensions to fit into the standard sized cavities of the SMT packaging family of tray, album and page products. Inserts include matching snap-in cover for safely detenting ICs in pockets to protect all nested components. With this "mix-and-match" flexibility users are able to handle any combination of any SMT IC styles in one package. **(USA)**

8 pockets @ 0.70" sq.
No. 457ST008 ..... **$2.00**
6 pockets @ 0.95" sq.
No. 457ST006 ..... **$2.00**
2 pockets @ 1.25" sq.
No. 457ST020 ..... **$2.00**
1 pocket 1.8" sq
No. 457ST010 ..... **$2.00**

VCI-125 Electro Static Dissipative Bags

These bags prevent corrosion and ESD damage, and protects from electrostatic discharge, pitting, staining and oxidation. Does not require moisture to function, and has multimetal protection and will not affect polycarbonates. Typical applications are packaging static sensitive and nonstatic sensitive components, integrated circuits, printed circuit boards, and PCB components.

No. 275ST060 4" x 6" ..... **$7.00** **No. 275ST062** 8" x 10" **$22.00**
No. 275ST061 6" x 8" ..... **$13.00** **No. 275ST063** 10" x 12" **$29.00**

Static Intercept™ Protective Bags

These Static Intercept™ Protective Bags are state of the art ESD protection with permanent static protection; no amines or amides; completely humidity independent; does not outgas; very low charge generation, <20v. 3 mil Thick. *These bags are a Lucent Technologies Bell Laboratories patented technology.* **100/pk. (USA)**

No. 758ST203 3" x 5" ..... **$25.45** **No. 758ST206** 6" x 10" **$58.95**
No. 758ST204 4" x 6" ..... **$26.80** **No. 758ST208** 8" x 10" **$59.95**

Other Sizes Available.

Richmond 8300 Transparent Metal Out Static Shielding Bags

8300 bags protect static sensitive components from all types of ESD damage with full faraday cage shielding as well as from internal tribocharging with at static dissipative polyethylene inner layer. The metalized layer is 48-gauge polyester to provide puncture resistance. An antistatic, abrasion resistant coating protects the outer metal layer. **Specs:** Surface Resistance: metal: <1.0 x $10^2\Omega$, outside: <.0 x $10^7\Omega$; ESD Shielding <10 nano-joules; Static Decay: 0.01 seconds; Charge Generation: 0 Volts; Charge Retention: <15 Volts. ***100 bags/Pk.*** **(USA)**

8300 Metal-Out Bags							
TT No.	Size, in.	1-4 Pks.	5-9 Pks.	TT No.	Size, in.	1-4 Pks.	5-9 Pks.
679ST335	3" x 5"	$5.95	$5.36	679ST066	10" x 12"	$21.00	$18.90
679ST346	4" x 6"	$7.65	$6.89	679ST314	10" x 14"	$20.55	$18.50
679ST065	5" x 8"	$9.00	$8.10	679ST1024	10" x 24"	$33.10	$29.70
679ST368	6" x 8"	$12.00	$10.80	679ST318	12" x 18"	$28.20	$25.38
679ST601	6" x 10"	$195.50	$175.95	679ST069	18" x 18"	$54.25	$48.83
679ST380	8" x 10"	$17.65	$15.89	679ST070	18" x 24"	$70.00	$63.00
679ST382	8" x 12"	$17.65	$15.89				

Richmond RCAS® 4150 Buried Layer Static Shield Bags

The 48-gauge polyester layer is a more cost-effective alternative. Critical metal layer is sandwiched between static-dissipative layers to protect the static shield. Surface resistivity of the metal layer is <10 Ω/sq. to shield against static charge. Static-dissipative polyethylene inner layer is amine-free, polycarbonate compatible and octanoic acid-free. Thickness: 3.0 mils.; Shelf life: minimum of one year in normal indoor storage conditions. Surface resistivity: 12% RH, 74°F, 48 hrs., Static decay: 5,000V to 0V: 0.05 sec. ***100/Pk.*** **(USA)**

TT No.	Size, in.	1-4 Pks.	5-9 Pks.	TT No.	Size, in.	1-4 Pks.	5-9 Pks.
679ST035	3" x 5"	$4.85	$4.37	679ST114	10" x 14"	$24.30	$21.87
679ST046	4" x 6"	$6.25	$5.63	679ST950	12" x 16"	$29.95	$25.16
679ST115	6" x 8"	$10.50	$9.45	679ST218	12" x 18"	$36.85	$33.17
679ST061	6" x 10"	$10.25	$9.23	679ST063	16" x 18"	$31.20	$28.08
679ST810	8" x 10"	$15.00	$13.50	679ST064	18" x 18"	$53.30	$47.97
679ST812	8" x 12"	$17.65	$15.89	679ST182	18" x 24"	$69.85	$62.87
679ST1012	10" x 12"	$21.30	$19.17	*Other Sizes Available–Call*			

Richmond 1206 Dissipative "Pink Poly" Bag

"Pink Poly" is transparent polyethylene, static dissipative, and cleanroom safe that retains static safe properties even when ultra cleaned. **Specs:** Thickness: 6 mils; Seal Strength: 8 lbs/in; Light Transmission: 95%; Shelf Life: Minimum 1 year in normal indoor storage conditions. Surface Resistance: <1.0 x $10^{12}\Omega$; Static Decay: 0.05 sec. *Mil-B-81705C Type II.* **(USA)**

1206 Zip Lock Top Bags - 100/Pk

No. 679ST135 3" x 5" **$75.50**
No. 679ST9270 6" x 12" **$165.00**
No. 679ST1206 10" x 15" **$31.00**

3M Velostat™ Conductive Foam

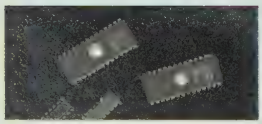
Crosslinked polyethylene conductive foam provides both physical & electrostatic protection for sensitive microelectronic parts. Volume resistivity of less than 1 x 10^5 ohms-cm. Low density.

2802 Velostat - 2 lb. Density 39" x 39"
No. 105ST802 1/4"T **$78.25**

2803 Velostat - 3 lb. Density 24" x 36"
No. 780ST2803 1/8"T **$20.45**
No. 780ST2805 1/4"T **$36.70**
No. 780ST2804 1/2"T **$73.45**

2823 Velostat - 4 lb. Density 24" x 50"
No. 780ST2823 1/8"T. **$310.60**
No. 780ST2825 1/4"T. **$621.20**

2806 Velostat - 6 lb. Density 24" x 36"
No. 780ST2807 3/8"T **$51.80**



3M 1900 Metal-in Static Shielding Bags

3M

These economical static-shielding gabs are perfect for your less demanding applications. They feature an aluminum vapor coating and thinner 0.48 mil polyester. **100/Pk.**

1900 Metal-In Bags							
TT No.	Size, in.	1-4 Pks.	5-9 Pks.	TT No.	Size, in.	1-4 Pks.	5-9 Pks.
780ST1946	4" x 6"	$8.50	$8.08	780ST1910	10" x 12"	$25.95	$24.65
780ST1968	6" x 8"	$12.85	$12.21	780ST1912	12" x 18"	$46.15	$43.84
780ST1810	8" x 10"	$19.35	$18.38	780ST1918	18" x 18"	$67.85	$64.46

Other Sizes Available–Call

3M 2100R Metal-Out Standard Static Shielding Bag

2100R bags are produced with a proprietary "metal-out" construction which has the shielding layer near the exterior surface. A thin, abrasion-resistant coating protects this metal surface scratches, but still permits measurement of electrical continuity with common volt-ohmmeters for easy verification of shielding performance prior to reuse. **100/Pk.**

No. 105ST305 3" x 5" **$15.60**
No. 462PR2144 4" x 4" **$15.90**
No. 105ST210 4" x 6" **$20.35**
No. 780ST608 6" x 8" **$33.85**
No. 105ST810 8" x 10" **$50.75**
No. 780ST005 5" x 15" **$57.35**
No. 780ST812 8" x 12" **$48.45**
No. 105ST2100 10" x 12" **$60.20**
No. 780ST1024 10" x 24" **$113.55**
No. 780ST1015 11" x 15" **$84.55**
No. 105ST2105 12" x 18" **$102.55**
No. 780ST1518 15" x 18" **$127.65**
No. 105ST2106 18" x 18" **$152.35**

3M 2110R Metal-Out Reclosable Static Shielding Bag

2110R bags are produced with a proprietary "metal-out" construction which has the shielding layer near the exterior surface. A thin abrasion-resistant coating protects this metal surface scratches, but still permits measurement of electrical continuity with common volt-ohmmeters for easy verification of shielding performance prior to reuse. Features an anti-static, reclosable zipper. **Specs:** 3.5 mil thick; Resistivity: Interior <$10^{11}\Omega$; Exterior<$10^{11}\Omega$; Metalized Layer <$10^{2}\Omega$/sq.; Meets Mil-Spec B & ASTM: **100/Pk.**

No. 780ST211 6" x 8" **$45.60**
No. 105ST021 8" x 10" **$56.15**
No. 105ST2110 10" x 12" **$79.10**
No. 150ST112 11" x 15" **$111.15**

A. Impulse Hand Sealer

Make air and water tight seals on materials such as polyethylene, pliofilm, P.V.A, Kel-F, Tivac, Polyflex, Saran, Mylar, Nylon, polyurethane, polyvinylchloride, and polypropylene. **(USA)**

Seal Length: 16"; Max. Seal Thickness: 6 mil; Seal Width: 2mm; Watts: 500W.
No. 139PR400 ..... **$124.80**

Seal Length: 20"; Max. Seal Thickness: 6mil; Seal Width: 2mm; Watts: 600W.
No. 139PR500 ..... **$192.00**

B. Impulse Sealer w/Cutter

Equipped with a sliding cutting blade to cut excess material 1/4 inch from seal. Ideal for sealing poly tubing. Excellent for applications in the medical, pharmaceutical and packaging fields. **(USA)**

Seal Length: 8"; Max Seal Thickness: 6 mil; Seal Width: 2mm; Watts: 260W.
No. 139PR200 ..... **$123.20**

Seal Length: 12"; Max. Seal Thickness: 6 mil; Seal Width: 2mm; Watts: 360W.
No. 139PR300 ..... **$158.40**

C. I-Bar Shrink Wrap System

Enhance the appearance and value of your product, by protecting it against dirt, dust, moisture, and handling with the I-Bar shrink wrap system. Simple to use with three simple steps and no warm up required. **Features**: Bar Sealer; Timer; two speed heat gun and holder; film rack; includes 500 ft. roll of center fold 75 gauge shrink film; outlet plug and parts kit. **(USA)**

Seal Length: 18"; Max. Circum: 32"; Volts: 115V; Watts: 350W.
No. 139PR181 ..... **$268.80**
Seal Length: 24"; Max. Circum: 44"; Volts: 115V; Watts: 450W.
No. 139PR241 ..... **$302.40**

D. Static Dissipative Shrink Film

The lowest surface resistivity ever available in a static-dissipative shrink film. Its surface resistivity remains at a constant level up to two years. Made of top grade amine-free, polyolefin resins, this film is polycarbonate compatible and recyclable. **Specs:** Surface resistivity: $1x10^{11}$ Ω/sq. before shrinkage, $2x10^{11}\Omega$/sq. after shrinkage; Static decay rate: 0.4 seconds after shrinkage; Triboelectric charge: <0.2 NCB/sq.; Density: 0.92 gr/cm^3; Tensile strength: MD 400 TD 800kg./cm^2; Shrinkage: MD 50% TD 60%. All rolls: 100 gauge: 2620 feet/roll; center fold. *Meets Mil-B-81705C.* **(USA)**

No. 700ST826 8" **$180.00**/Roll
No. 700ST026 10" **$204.00**/Roll
No. 700ST426 14" **$285.60**/Roll
No. 700ST126 18" **$367.00**/Roll
No. 700ST242 24" **$489.60**/Roll

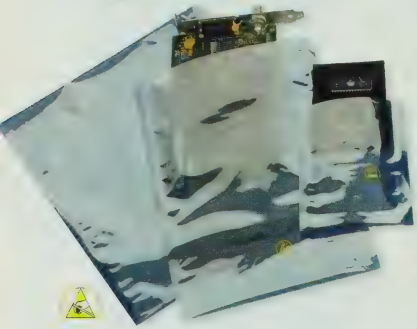
3 Good Reasons Why . . . You Should Buy Techni-Stat® Static Shielding Bags

1. *Your Techni-Stat® Static Shielding bags are made only from* ***National Metalizing Film****, and are manufactured on machines engineered and built to produce static shielding bags – only!*
2. *Your Techni-Stat® Bags are created to maintain an unintered Farady Cage to meet EIA541 and Mil Spec B-81705C Standards.*
3. *Your Techni-Stat® National Metalizing Film Bags are made from Heavy-Duty Aluminized Polyester Film and contain no amines. No amides or No-octanoic acid. Each bag is stamped with date of manufacturer, and lot number to meet your ISO-Standards.*

Techni-Stat® 100 Static Shielding Bags - 100 Pack

Techni-Stat 100 is the highest quality, most economically-priced National Metalizing Static-Shielding Film bag available. With 40% light transparency. **Specs:** EMI shielding *(MIL-B-81705C)*: >10 db between 1 & 10 GHz; Resistivity-conductive metal layer: <50Ω/sq. in. avg. (5 x 10Ω/sq); Surface resistivity (both): <10Ω. sq. in.; Static decay: <0.03 Seconds; Capacitive Probe Test: <20V. **Physical Specs:** Thickness: 3.0 mils; Light transmission: 40% 50 psi; Puncture strength: >12 lbs.; Heat seal strength: >14 lbs./in width (rm. temp). **Heat Seal Specs:** recommended temp.: 250-400°F; pressure: 35-80 psi. **(USA)**

No. 758ST035	3" x 5" 100/Pk.	**$2.90**	**No. 758ST1218**	12" x 18" 100/Pk.	**$23.10**
No. 758ST046	4" x 6" 100/Pk.	**$3.70**	**No. 758ST1518**	15" x 18" 100/Pk.	**$29.50**
No. 758ST610	6" x 10" 100/Pk.	**$7.70**	**No. 758ST1824**	18" x 24" 100/Pk.	**$44.80**
No. 758ST1012	10" x 12" 100/Pk.	**$14.00**	*Over 50 Sizes Available*		



Techni-Stat® 110 Static Shielding Bags - 100 Pack

The *Techni-Stat 110*, is an opaque and heavy-duty National Metalizing Static-Shielding Film bag meets all the requirements of *MIL-B-81705C Ty.I.* **Specs:** Static dissipative layer/aluminized polyester film/adhesive/2.6 mil L.D.P.E./Static dissipative layer. EMI shielding: >40dB between 1 & 10 GHz; Resistivity-conductive metal layer: <2Ω/sq. in.; Surface resistivity (both): <10^{12}Ω.sq. in. avg. 10^{10}Ω/sq. in.; Static decay: <0.05 sec.; Capacitive probe test: <8V. thickness: 3.6 mils; Puncture strength: >20 psi; Burst strength: 84 psi; heat seal strength impulse sealer: >11 lbs/in width; Light transmission: <.01%. **(USA)**

No. 758ST110	8" x 10" 100/Pk.	**$31.75**	**No. 758ST161**	16" x 18" 100/Pk.	**$102.80**
No. 758ST101	10" x 12" 100/Pk.	**$44.95**	**No. 758ST103**	10" x 30" 100/Pk.	**$103.95**
No. 758ST102	10" x 20" 100/Pk.	**$49.95**	*Over 50 Sizes Available*		

Techni-Stat® Stat 100Z Zip-Lock Bag - 100 Pack

Techni-Stat 100Z is a strong, zip lock, abrasion-resistant National Metalizing Static-Shielding Film bag that has buried metal between two polymeric plastic layers. It appears as a semi-transparent material, provides an effective Faraday Cage ideal for protecting printed circuit boards and sub assemblies. This material contains no amines, no amides, or n-octanoic acid. III. **Specs:** Static dissipative layer/48 ga. polyester/transparent aluminum layer/adhesive/2.4 mil polyolefin/ static dissipative layer. Thickness: 3.0 mils; tear strength: MD:2.5 lbs; burst strength: 50 psi; heat seal strength: >14 lbs/in width (rm. temp). >10 dB between 1 & 10GHz; metal layer: <50Ω/sq. (5x10Ω/sq); Surface resistivity (both): <10Ω/sq. (10Ω/sq. average); Static decay: <0.03 sec.; Capacitive probe test: <20V; May be Heat Sealed: recommended temp: 250-400°F; Pressure: 35-80 psi; 100/Pk. *Meets MIL-B-81705C TY.* **(USA)**

No. 758ST305	3" x 5" 100/Pk.	**$6.50**	**No. 758ST810**	8" x 10" 100/Pk.	**$15.10**
No. 758ST406	4" x 6" 100/Pk.	**$8.25**	**No. 758ST112**	10" x 12" 100/Pk.	**$21.20**
No. 758ST508	5" x 8" 100/Pk.	**$9.40**	**No. 758ST1216**	12" x 16" 100/Pk.	**$28.00**
No. 758ST608	6" x 8" 100/Pk.	**$10.90**	*Over 50 Sizes Available*		

Techni-Stat® Ultra-Dry Static Shielding Bags Moisture Bags - 100 Pack

Techni-Stat® 1500™ Specifically designed for vacuum packaging, this 7-mil-thick composite material provides an extremely low MVTR and high-puncture resistance. **Specifications:** EMI Shielding: >40db between 1 and 10 GHz.; Resistivity-Conductive Metal Layer: <2Ω/sq. in. avg.; Surface Resistivity (both surfaces): <10^{12}Ω. Sq. in.; Static Decay: <0.05 sec.; Capacitive Probe Test: <8V; Light Transmission: <.01%; Tensile Strength: 735 lbs.; Burst Strength: >130 psi; Puncture Strength: >38 lbs. **(USA)**

No. 758ST120	10" x 20" 100/Pk.	**$72.00**
No. 758ST1030	10" x 30" 100/Pk.	**$89.90**
No. 758ST1618	16" x 18" 100/Pk.	**$91.60**

Techni-Stat® Dry™ Replaces costly nylon/foil laminates with a 3.6 mil multi-layer composition. Features a low MVTR. **Specifications:** EMI Shielding: >40db between 1 and 10 GHz.; Resistivity-Conductive Metal Layer: <2Ω/sq. in. avg.; Surface Resistivity (both surfaces): <10^{12}Ω. Sq. in.; Static Decay: <0.05 seconds; Capacitive Probe Test: <8V; Light Transmission: <.01%; Tensile Strength MD: 9,000 psi; Burst Strength: 84 psi; Puncture Strength: >38 lbs. *Meets Mil-B-81705C.* **(USA)**

No. 758ST030	4" x 30" 100/Pk.	**$32.10**
No. 758ST630	6" x 30" 100/Pk.	**$66.45**
No. 758ST618	16" x 18" 100/Pk.	**$57.60**

Techni-Stat® Pressure Sensitive Labels & Signs

A

B

C

D

E

F

G

H

J

K

L

M

N

P

Q

R

A. Yellow w/Black-MILSTD-129
2" x 2"; 1000 labels per roll.
No. 758ST721 Reusable..... **$8.50**

B. 2" x 2"; 1000 labels per roll.
No. 758ST722 Destructible **$8.50**
4" x 4"; 1000 labels per roll.
No. 205ST728 ..... **$15.50**
5/8" x 2"; 1000 labels per roll.
No. 205ST672 ..... **$5.40**

C. Yellow w/Black - JEDEC-14
2" x 2"; 1000 labels per roll.
No. 758ST221 Destructible.... **$17.50**
4" x 4"; 1000 labels per roll.
No. 679ST044 Destructible.... **$32.75**
5/8" x 2"; 1000 labels per roll.
No. 205ST673 ..... **$5.40**
2" x 2"; 1000 labels per roll.
No. 205ST675 ..... **$8.25**

D. Yellow w/Black - JEDEC-14
1-3/4" x 2-1/2"; 500 labels/Roll.
No. 758ST712 Destructible **$7.95**

E. Orange w/Black - JEDEC-14
1-3/4" x 2-1/2"; 500 labels/Roll.
No. 758ST711 Reusable..... **$7.50**

F. Awareness Poster - JEDEC-14
Constant reminders for personnel to use proper static control procedures. Yellow plastic posters. Self-adhesive back. 5/Pk.
No. 780ST7411 10" x 4" **$23.30**

G. Caution - Static: Do Not Open Label
Fluorescent Red Lightning Bolt; 1000/Roll
No. 679ST028 1-1/2" x 3" **$20.80**
No. 679ST029 5/8" x 2" **$18.60**

H. Caution - Sensitive Electronic Devices
Black/Yellow Label; 1000/Roll
No. 679ST032 2" x 2" **$21.40**
No. 679ST034 4" x 4 ..... **$32.75**

J. Caution - Sensitive Electronic Devices - JEDEC-14
Black/Yellow label with Reaching Hand; 1000/Roll
No. 679ST040 5/8" x 2" **$18.60**
No. 679ST042 2" x 2" **$21.35**

K. Attention Sign - JEDEC-14
10"L x 4"W - Plastic black on yellow sign with double-sided mounting tape. 5/Pk.
No. 758ST745..... **$14.00**

L. ESD Caution Tape - JEDEC-14
Aisle and physical hazard tape. High visibility, pressure sensitive 6 MIL thick vinyl tape is weather and chemical resistant. Roll Size: 3"W x 18 Yd.L.
No. 205ST003 ..... **$22.50**
3" wide x 36 yds. (USA)
No. 758ST804 ..... **$31.45**

M. Cleanroom Labels
These cleanroom labels and tape are made from a non-vinyl, proprietary polyolefin film where the resin is produced via high pressure technology. The pressure sensitive adhesives are acrylic-based, free of any metal crosslinking agents and are non-depositing. The release liner contains no release coatings. The ultra-smooth surface is perfect for bar code labeling. **Specs:** Thickness: .0042" +/- .0004"; Adhesive removability: clean removability from most surfaces leaving no adhesive residue. *Code: 90503*, 3" x 1.25"; 1,000 per roll.
Caution Label
No. 758ST010 Orange **$86.00**

N. Floor Tape - JEDEC-14
This yellow/black markings floor tape is vinyl coated with new symbols and is scuff resistant.
No. 205ST161 3" x 54 ..... **$15.75**
No. 205ST163 3" x 108 ..... **$29.25**

P. The Attention Sign - yellow w/Black - JEDEC-14
1" x 6"; Rigid plastic sign.
No. 758ST674 ..... **$9.95**

Q. ESD Awareness Poster - JEDEC-14
With mounting tape. 10" x 17". 5/Pk.
No. 205ST717 ..... **$10.10**

R. ESD Handling Sign - JEDEC-14
Double-Sided. 10" x 20". 3/Pk.
No. 205ST720 ..... **$11.25**

Need another catalog? Call us today...
1-800-505-TOOL

3M Labels and Signs

A

B

C

D

A/B. Attention - JEDEC-14
1.875"L x 2.5"H; 500 labels/roll
M. No. 780ST7101 Reusable **$14.65**
N. No. 780ST7102 Destructible.. **$16.30**

C. Attention - Contents MILSTD 129
2"L x 2"H; 500 labels/roll
No. 780ST7201 Reusable **$18.55**
No. 780ST7202 Destructible.. **$18.55**

C. Attention - MILSTD 129
4"L x 4"H; 250 labels/roll
No. 780ST7203 Reusable **$30.25**
No. 780ST7204 Destructible..... **$30.25**

D. Attention Signs - JEDEC 14
Bench sign, 1" x 6" plastic
Self-adhesive backs.
No. 780ST7410 ..... **$12.40**
Wall sign, 4" x 10" plastic
Self-adhesive backs
No. 780ST7411 ..... **$23.30**

Cleanroom Tape

This low-particulate and contaminate-free non-vinyl polyolefin film tape can be used in cleanroom construction and retrofit: seal carrier boxes, bags and bottles; and color coding anything in the cleanroom. Remove with little or no adhesive transfer. 1"W x 36 yd/roll. **(USA)**

No. 132ST104 Blue **$10.75**/Roll
No. 132ST048 Yellow **$10.75**/Roll
No. 132ST108 Red **$10.75**/Roll

Clean Roller Handle Kit

The Clean Roller is easy to use just roll it over the surface you want to clean. When the top layer sheet is saturated with dust, simply remove it at the perforation and discard. The Clean Roller is comprised of layers of closed cell foam, which has been coated with a non-transferring adhesive. Especially recommended for use on rough or irregular surfaces, including textured walls or ceiling tiles, and supplied with 20 layers per roll. Kit 1 roller handle, hardware and 1 roller. **(USA)**

Handle Kit
No. 132PR009 9" **$35.70**
No. 132PR008 18" **$47.85**

Refills (case of 4)
No. 132PR091 9" **$44.55**
No. 132PR081 18" **$92.40**

Handle Only
No. 132PR609 9" **$14.45**
No. 132PR708 18" **$24.75**

Extension 4' to 8'
No. 132PR048 ..... **$57.75**

Extension 6' to 12'
No. 132PR062 ..... **$77.55**

ALMArk Cleanroom Pen

Provide an extra margin of safety where the contamination of normal ink may be of concern with the ALMArk Cleanroom Pen. This specially formulated ink has no sodium and low levels of chlorine and heavy metals as compared to other pens currently available. **(USA)**

No. 132PR022 Black Ink **$29.95**/Dz
No. 132PR012 Blue Ink **$29.95**/Dz

Cleanroom Razor Blades

Blades degreased, cleaned, and specially bagged for cleanroom use. .009"W. **(USA)**

No. 146PR451 10/Pk. (1-9) **$4.00** (10-49) **$3.60** (50+) **$3.20**

11 Gallon ESD Waste Basket *New!*

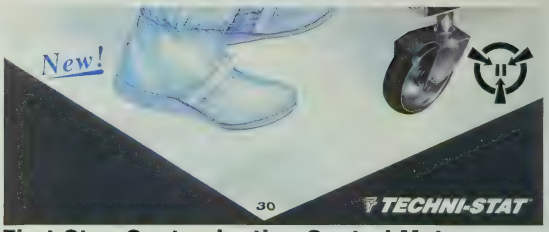
This high impact, high-density polyethylene waste basket. Does not contain carbon, dyes or additives, **Properties:** will not tribogenerate; accepts conductive and anti-static bags; will not out-gas; natural color; Size: 16"D x 22"H (11 gal.).
(Does not include lid) **(USA)**

No. 106PR075 ..... **$40.00**

ESD Trash Can Liner

For use with ESD Static Dissipative Wastebasket. Liners are perfect for static sensitive areas where electrostatic contamination is a problem. **Specs:** Performance: Surface Resistivity: <10^{12} Ohms/Sq. ASTM-D-257; Static Decay Rate: 5 KV-0 Volts < 2 seconds (per Mil-B-81705B Type II); Description: Black opaque antistatic polyethylene 1.5 ml; Size: 24" x 34" (50 per case).

No. 106PR076 ..... **$16.50**



First Step Contamination Control Mats

Capture dirt and dust particles from foot-traffic, equipment wheels, or anything that crosses its surface before getting tracked in the cleanroom with this adhesive-coated contamination control mat. The 30-layered sheet construction allows you to peel off the top layer when soiled to expose a new layer. Eight pads of 30 mats per case. **(USA)**

25"W x 45"L
No. 132PR2546 White, 8/cs **$192.00**/Case
No. 132PR2547 Blue, 8/cs **$192.00**/Case

24"W x 36"L
No. 132PR2436 White, 8/cs **$140.80**/Case
No. 132PR2437 Blue, 8/cs **$140.80**/Case

Techni-Stat CleanStep Mats

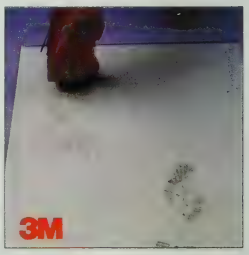
Stop dirt before it can be tracked into your office workplace or home with CleanStep Mats. This unique layered pad has a specially formulated non-transferring adhesive that removes dirt from shoes and wheels without inconveniencing the user. Each sheet has an antimicrobial agent that provides long-lasting protection against growth of organisms including bacteria, mold and mildew that come into contact with the mat. It is nonleeching and nontoxic. The pads are mounted on a nonskid frame that stays put, even when resting on carpeting, tile or other slippery floors. The frame can easily be moved to any high-traffic area. **(USA)**

CleanStep Frame (white) with 60-layer pad. 31.5" x 25.5". 8 lbs.
No. 132PR101 White **$57.75**
No. 132PR103 Blue **$57.75**

CleanStep Double Frame with 60-layer pads. 31.5" x 51". 16 lbs.
No. 132PR201 White **$113.85**
No. 132PR203 Blue **$113.85**

Replacement pads fit both CleanStep and CleanStep Double Frame. 30" by 24". 14 lbs.
No. 132PR401 White ..... **$148.50**/Pk.
No. 132PR403 Blue ..... **$148.50**/Pk.

3M 5800 Series Clean-Walk Mats



Maintain cleanroom standards. These adhesive floor mats remove dirt and contaminants from shoe soles, wheels and other passing objects–on contact. When the top sheet becomes soiled, it can be peeled back to reveal a new clean adhesive sheet underneath. **Features:** Each mat includes 30 adhesive layers on a 2 mil polyethylene backing; Long lasting; Mat can be adhered to any clean, dry floor; No beveled edge or frame to trap dirt. 30 sheets per mat, four mats per case. **(USA)**

No. 105UN801 (5800) 18" x 45" **$144.45**/case
No. 105UN802 (5802) 24" x 45" **$276.95**/case

TackyMat® Cleanroom Mat

Stop dirt in its tracks with this easy-to-install, simple-to-change cleanroom mat. To change, simply lift the tab and pull off the contaminated sheet to reveal a new one. 120 mats per case. 18" x 46". **(USA)**

No. 508ST012 ..... **$145.00**/case

3M Static Tape

3M

Static-Free Tape

No particles and no paper or fiber cores used. Ideal for use with sensitive electronic components and P.C. Boards. 3" core. Generates essentially no charge when removed from its reel. Clear tape is a permanent anti-static, with static dissipative adhesive. Std. sizes available. ***Quantity Pricing Available.***

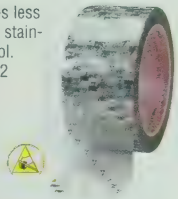
No. 155ST034 3/4" x 72 Yds **25.95**
No. 155ST036 1" x 72 Yds **$27.50**

Static-Free Tape Impregnated with Teflon®

This static-free, pressure-sensitive tape, made of fiber-glass cloth impregnated with Teflon®, has a non-sloughing, conductive surface of 10/5 Ω/sq; Self-lined.: .003 Thickness.

No. 155ST218 1/2" x 18 Yds. **$35.00**
No. 155ST418 3/4" x 18 Yds. **$45.00**

3M 40 Anti-Static Utility Tape



A clear, printed, 2.2 mil polyester film tape. generates less than 50V on unwind from the roll or removal from a stainless steel surface. Tape is imprinted with ESD symbol. Surface resistance: 5 x 10^6 Ω/sq. to 5 x 10^8 Ω/sq.. 72 yards/roll.
3" Core. ***Quantity Pricing Available.***

No. 105AD1232 1/2" width **$10.40**
No. 105AD040 3/4" width **$15.65**
No. 105AD172 1" width **$20.85**
No. 105AD044 2" width **$40.90**

Anti-Static Tape Dispensers

Anti-Static Table Top Tape Dispensers *New!*

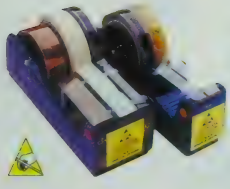
These tape dispensers hold 1", 2" and 3" wide tape. The 2" and 3" wide dispensers allow multiple roles of tape on the dispenser at one time. **(USA)**

No. 758ST100 (TD1-AS) 1" **$38.00**
No. 758ST200 (TD2-AS) 2" **$45.00**
No. 758ST300 (TD3-AS) 3" **$49.90**

Anti-Static Utility Tape Dispenser *New!*

This tape dispenser is designed for use in ESD protected areas and is suited for use in clean room areas. It is made of conductive and static dissipative materials that will minimize or eliminate problems associated with conventional dispensers. **(USA)**

No. 105PR620 ..... **$83.25**



ESD Tape Dispenser

This dispenser is constructed of solid metal and is powered coat non-static generating paint. The plastic rolls are coated with static dissipative clear coating. The bottom pad is made of dissipative and conductive rubber. Each roller moves independent of each other. Holds (2) rolls of up to 1" wide 3" core tapes or (1) 2" wide tape.

No. 205ST160 **$41.95**
Holds (3) rolls of up to 1" wide core tapes.
No. 205ST603 **$50.25**

ESD Static Tape

Techni-Stat® Printed Cellulose Anti-Static Tape with ESD and JEDEC Symbols

This Techni-Stat tape is designed to be used were the application warrants no static charge. It is coated with an aggressive non-staining natural adhesive which will stick to most clean and dry surfaces, and is designed to meet and comply with DOD Standards of Static decay, *MIL-B-81705.* Store @ 68°F and out of sunlight. 3" core x 216' long.

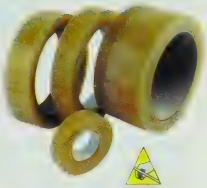
No. 205ST047 1/2"W..... **$4.55**
No. 205ST048 3/4"W..... **$5.95**
No. 205ST049 1"W **$7.50**
No. 205ST052 2"W **$12.75**

Techni-Stat® Conductive Grid Tape

Techni-Stat's conductive grid tape is a special polypropylene tape layered with a non-sparking, anti-static surface on the inside and outside of the tape, and will not shed, flake crack or rub off. Designed to meet and comply with DOD standards of static decay. **Specs:** Conductive Grid Layer: 10^4 - 10^5 Ω/sq.; Decay Time 5000V to 50V: <0.01 seconds; Antistatic Copolymer Layer: 8 x 10^{10}Ω/sq.; Thickness: 49 microtons: Adhesion: 45kg; Peel Adhesive: solvent acrylic based; Temperature Resistance: 60°C/140°F; Core Size: 3"; Roll Length: 118ft; Color: Tan/Black.

No. 205ST037 1/2"W **$2.70**
No. 205ST038 1"W **$4.35**
No. 205ST039 2"W **$9.10**

Techni-Stat® Transparent Anti-Static Tape

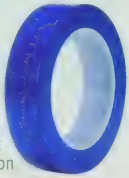


Techni-Stat's tape is a transparent tape specially designed for use in ESD-sensitive environments. **Specs:** Surface resistivity 10^{10} Ω/sq.; Decay Time: 5000V to 50V, < 0.11 sec.; Thickness: 2.4 mil; Adhesion: 40oz/inch; Tensile Strength: 25lbs/in; Core Size: 1" & 3".

1" Core x 108' Long
No. 205ST040 1/2"W **$1.95**
No. 205ST041 3/4"W **$2.50**
No. 205ST042 1"W **$2.95**

3" Core x 216' Long
No. 205ST043 1/2"W..... **$2.45**
No. 205ST044 3/4"W..... **$2.90**
No. 205ST045 1"W **$5.50**
No. 205ST046 2"W **$8.80**

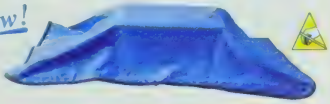
Cleanroom Tapes *New!*



Ideal for a variety of cleanroom applications this cleanroom tape is low density, water resistant, and color-coded. Features good chemical resistance, excellent moister barrier properties and excellent conformability. **Specs:** Total Thickness: 5mils; Tensile Strength: 10 lbs. / in width: Elongation at Break: 650%; Adhesion to Steel: 40 oz. / in width; Moisture Vapor Transmission: less than 2.0g; Operating Temperature: -40°F to 200°F; Application Temperature: 20°F to 120°F. 18 yards/roll. **(USA)**

No. 758ST905 1/4"W . ..... **$.75**
No. 758ST906 1/2"W **$1.20**
No. 758ST907 3/4"W..... **$1.50**
No. 758ST908 1"W. **$1.90**
No. 758ST909 1-1/2"W **$2.85**
No. 758ST910 2"W **$6.95**

ESD Work Station Cover *New!*



The ESD Work Station Cover provides coverage over your entire workstation. Shields work-in process from static. dust, etc. Includes: bonded edges, 3/8" female grounding snap, and silk-screened ESD symbol. **Specs:** Conductive Fabric: polyester filament with a carbon suffused nylon grid: Surface Resistivity: 10^5 Ω/sq. Washable. Dimensions: 30" x 48". **(USA)**

No. 117ST3048..... **$26.10**

Cleaning Products

Zero Charge® Screen and Keyboard Cleaner

With regular use, this aerosol cleaner will eliminate static charge from sensitive surfaces and provide long-term static protection. Removes hand oils, ink marks, dust, fingerprints, nicotine, carbon and other soils from work areas. Safe on most plastics.

No. 754CH436
6 oz. Aerosol... **$3.80**
No. 754CH1743
48 Wipes **$11.70**

Etc. Anti-Static Cleaner

Designed for non-porous surfaces, this non-aerosol water-based cleaner removes heavy soil from glass, plastic and metal cleaners while providing light static control.
One Quart.
No. 754AE046 .... **$13.15**

Zero Charge™ Screen and Keyboard Cleaner

Eliminate static charge from sensitive surfaces and provide long-term static protection with Zero Charge™ Screen and Keyboard Cleaner. Removes hand oils, ink marks, dust, fingerprints, nicotine, syrup, carbon, and other soils from work areas. Safe on most plastics.
***50/Pk.* (USA) 50 Pre-Saturated Packets per Carton**
No. 754CH350 ..... **$18.15**

Zero Charge® Hand Lotion

Lotion is specially designed for the electronics industry without contaminants such as silicone and lanolin – ingredients found in common, household lotions. Improving the contact between personnel and their wrist straps, the anti-static Hand Lotion keeps skin soft while strengthening the overall ESD program.

No. 754AE112 8 oz. Finger Pump .. **$4.90**
No. 754CH029 8 oz. Bottle **$3.00**

Envi-Ro-Tech™ Anti-Static Freezer 1747

Rapidly evaporating HFC-134a with anti-static agent is used for trouble-shooting in sensitive areas for intermittently faulting capacitors, resistors, semi-conductors and other defective components. Prevents cold solder joints; protects heat-sensitive components during soldering. Non-Flammable. Leaves No Residue. 10 oz. Aerosol
No. 754AE747 ..... **$7.00**

Zero Charge® Hand Lotion

This specially formulated lotion improves the contact between personnel and grounding devices, such as wrist and heel straps. Natural products including aloe vera, vitamins A and E penetrates rapidly leaving your skin soft and non-greasy. Contains no silicone, lanolin, squalene, or similar materials found in conventional hand lotions that can interfere with PCB manufacturing. **(USA)**
8 oz. Squeeze Bottle with Finger Plump
No. 754AE112 ..... **$4.90**
1 Quart in Plastic with Pump
No. 754CH178 ..... **$10.75**

Static Dissipative Products

Engineered to protect electronic equipment and work spaces from static buildup while cleaning and reconditioning. They prevent and eliminate electrostatic point sources on nonporous surfaces.

Static Free PlasT-N-GlaS®

Efficiently removes electrostatic build-up, handling oils, finger soils and more. Controls static, cleans and polishes in one application. Compatible with plastics, glass and stainless steel. Non-flammable.
No run or drip. 16 oz. Aerosol.
No. 237AE668 ..... **$7.35**

Static Free Mat & Benchtop Reconditioner

Clean and protect ESD mats, benchtops, production and assembly surfaces. Non-flammable, nonabrasive, noncorrosive. Safe on surfaces not harmed by water.
16 oz. trigger spray.
No. 237CH664 ..... **$10.15**

FreeZ-It® Antistat

The high-performance, pinpoint-accurate freeze spray that safely cools individual static-sensitive components. Safe on plastics, nonflammable, upper ozone safe, and CFC/HCFC free.
10 oz. Aerosol.
No. 237PR105 ..... **$10.50**

Static Free Hand Guard

Non-greasy, this hand lotion for electronic technicians is specially formulated for technicians and minimizes potential for static damage. Contains Aloe Vera and Vitamin E. Emollients penetrate deeply to relieve chapped or chemically-irritated skin. Contains no oils.
No. 237CH805 8 oz. pump **$5.50**

I.C. ESD Bottles

These ESD-safe bottles have an average surface resistivity of 10^8 to $10^{11}\Omega$/sq. and do not have features associated with surfactant laden material. The bottles will dissipate a charge of ±5000 V in less than two seconds at 40% RH! **(USA)**

A. 2 oz. Small Flux Bottle
#1 Needle 26 AWG
No. 674ST001 ..... $4.25
B. 2 oz. Small Flux Bottle
#2 Needle 20 AWG
No. 758ST002 ..... $4.25
C. 2 oz. Small Flux Bottle
#3 Needle 16 AWG
No. 674PR612 ..... $4.25
D. 8 oz. Water Bottle
No. 758ST003 ..... $4.50
E. 32 oz. Sports Bottle
No. 674ST032 ..... $7.85
F. 6 oz. Solvent with One-Touch Pump
No. 674ST600 ..... $10.55
G. 6 oz. Solvent w/ Purity Pump
No. 674ST060 ..... $11.40
H. 6 oz. Solvent Bottle - no lid
No. 674ST006 ..... $2.20
J. 16 oz. ESD Spray Bottle
No. 674ST018 ..... $7.50
K. 16 oz. Catch-all, for pens, etc
No. 674ST016 ..... $3.65

A B C D E F G H J K

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Static Dissipative Lotion

This Static Dissipative lotion in non-contaminating, which means no glycerin, mineral oil, silicones and lanolin. Enriched with Aloe Vera, and vitamin A, D & E this non-acidic lotion promotes softer, healthier hands and nails. Static Dissipative helps keep skin moist for better contact between the wrist strap and the skin. Absorbs immediately and is completely non-greasy so it won't interfere with grip or dexterity. **(USA)**

No. 674CH602	1oz. tube	**$1.50**
No. 674CH008	8 oz.	**$2.90**
No. 674CH604	8 oz. in ESD Bottle	**$4.30**
No. 674CH606	16 oz. in ESD Bottle	**$7.25**
No. 674CH608	32 oz. with pump	**$10.50**
No. 674PR034	32 oz. with wall bracket	**$24.00**
No. 674CH001	1 gal.	**$32.50**

IC Anti-Bacterial Lotion

IC Antibacterial hand sanitizing lotion is enriched with Aloe Vera and Vitamins A, D, & E. This natural alcohol free moisturizer helps achieve healthier, softer, younger looking hands and nails. This non-acidic lotion relieves chapping and skin irritation and skin sensitivity caused by regular use of latex and nitrile gloves. The non petroleum, non contaminating, greaseless formula contains no glycerin, mineral oil, silicones or lanolin and absorbs immediately into the skin without interfering with grip or dexterity. Formulated for the cleanroom, medical, and pharmaceutical environments. Meets cleanroom requirements for Class 1.10N>50PPM. **(USA)**

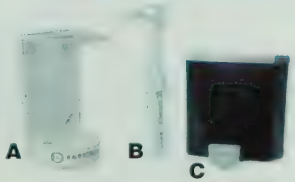
No. 674CH101	1oz.	**$1.50**
No. 674CH102	8 oz.	**$2.90**
No. 674CH103	32 oz. with pump	**$10.50**
No. 674PR034	32 oz. with wall bracket	**$24.00**
No. 674CH104	1 gal.	**$32.50**

IC Work Station & Mat Cleaner

IC Work Station Cleaner is a low ionic general purpose work station cleaner formulated for the electronic, cleanroom and pharmaceutical environments. This unique formula is mildly cationic to neutralize static charge and is both biodegradable and odorless. **(USA)**

No. 674CH614	2 oz.	**$2.25**
No. 674CH160	16 oz. in ESD bottle	**$7.50**
No. 674ST100	32 oz. in ESD bottle	**$7.85**
No. 674CH014	1 gal.	**$13.50**

Accessories



32 oz. wall bracket
A. No. 674AC216 ..... **$31.50**
Pump for gallon bottle
B. No. 674AC001 ..... **$3.50**
40 oz. wall dispenser
C. 674AC216 ..... **$31.50**

IC Cleanroom Lotion

Specifically formulated for Class 1 cleanroom environments. This greaseless non-petroleum formula absorbs immediately into the skin without interfering with grip or dexterity, and will not degrade the latex gloves or finger cots. Has skin sensitivity that will help prevent chapping, skin flaking, and irritation caused by regular use of gloves, finger cots and frequent hand washings. **(USA)**

No. 674ST075	1oz. tube	**$1.50**
No. 674ST010	8 oz.	**$2.90**
No. 674ST750	8 oz. in ESD Bottle	**$4.30**
No. 674CH610	16 oz. in ESD Bottle	**$7.95**
No. 674PR3200	32 oz. with pump	**$10.50**
No. 674PR034	32 oz. with wall bracket	**$24.00**
No. 674ST013	1 gal.	**$32.50**

IC Anti-Microbial Hand Cleaner

This neutral mildly cationic antibacterial, antimicrobial hand cleaner is formulated for the electronic, cleanroom, and pharmaceutical environments. Regular hand lotions contain soaps, along with silicone, lanolin and mineral oil, which can cause contamination. **(USA)**

No. 674CH105	2 oz.	**$2.00**
No. 674PR0032	32 oz. with pump	**$9.75**
No. 674PR034	32 oz. with wall bracket	**$24.00**
No. 674CH100	1 gal.	**$22.00**

IC Topical Antistat Spray

IC Topical Antistat is a general purpose antistatic agent with outstanding performance suitable for surface treatment of polymers used in electronic parts packaging. Used to eliminate static buildups on plastics, boxes, carpets and other porous materials. Spray bottles have a surface resistivity 10^6 to $10^{10}\Omega$/sq. and dissipates a charge of 5000V in ≤ 2 seconds at 40% relative humidity. **(USA)**

No. 674CH111	2 oz.	**$2.00**
No. 674CH112	16 oz. in ESD bottle	**$7.50**
No. 674CH113	32 oz. in ESD bottle	**$7.85**
No. 674CH106	1 gal. in ESD bottle	**$13.50**

IC Sunscreen

This IC Sunscreen is specially formulated to protect people who are exposed to the suns ultraviolet rays on a daily base. This sunscreen is hypo-allergenic, insect repellent, non-greasy, and oil free. Contains vitamins A, D & E and has a broad spectrum UVA-UVB. When used on a regular basis it may reduce signs of premature aging, wrinkles and the chance of long term sun damage including skin cancer. **(USA)**

No. 674CH107	2 oz.	**$2.50**
No. 674CH108	8 oz.	**$6.50**
No. 674CH109	32 oz.	**$25.75**
No. 674CH110	1 gal.	**$75.00**

Techni-Stat Reusable Microfiber Cleaning Cloth

New!

Contamination, dirt, and finger oil is safely and effectively wiped clean from a variety of coated and non-coated optical surfaces, including CD's, lasers, lenses and glasses, without the use of any chemical medium. Absorbs twice its weight in water, and will not shrink after laundering. (Korea)

Reusable Mircofiber Giant Anti-Static Cleaning Cloth. 11" x 12".

No. 758PR525 ..... **$3.65**

Microfiber Cleaning Cloth - 5pk. 11" x 12".

No. 758PR526 Beige **$18.20**
No. 758PR527 Blue **$18.20**
No. 758PR528 Pink **$18.20**
No. 758PR529 Mango **$18.20**
No. 758PR530 Green **$18.20**

Techni-Stat Optical Cleaner

This optical cleaner provides state-of-the-art cleaning for all coated, multi-coated, and anti-reflective optics. Cleans without smudges, streaks, smears, spots or residue. Safely cleans lenses, prisms, video display terminals, monitors, touchscreen displays, and anti-glare filters. Completely biodegradable and odorless solvent-free organic aqueous cleaner, and are non-toxic, non-flammable, and non-hazardous. Has exceptional static control. (Korea)

No. 758CH531 ..... **$3.85**

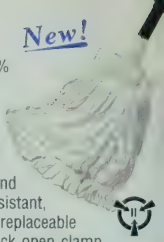
Techni-Stat Lint Free Anti-Static Gloves

These lint free gloves are made of polyester breathable fabric with woven metal grounding strips. They are designed with conductive fibers that will not slough off providing effective static safe gloves to be used in a clean room and general assemble. **Specs:** Surface Resistivity: $<10^8$; Charge Decay Time 5000V to 50V: <0.01 Seconds; RTT Resistance: 2×10^6 - 5×10^7 Ω/sq.; Construction: Polyester/Carbon filament yarn; Charge Decay: <0.1 sec.

No. 758ST532 ..... **$3.40/Pr.**

BetaMop™ II

New!

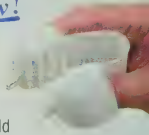


The BetaMop™ II features a high-capacity, seamless, 100% knitted polyester head constructed of tubular polyester that is ideal for wet mopping floors clean in both electronic cleanrooms and sterile environments. Its low fiber and particle release is corrosion-resistant, with durable construction. The replaceable head is easy to use with a quick open clamp. Features a 52" steel handle, and integral hanging hole. **(USA)**

No. 776PR710 BetaMop™ II **$56.50**
No. 776PR716 Refill Heads **$34.35**

Hand/Finger Protectors Silicone Rubber

New!



Ideal for safe handling of hot beakers, flasks, etc. Capable of withstanding temperatures up to 250°C/482°F, and can handle cold objects down to -57°C/-71°F. Contact surfaces are multi-studded for positive grip.

No. 174PR511 Hand Protector **$31.60**
No. 174PR512 Finger Protector **$17.75**

Cleaners

ACL Mat & Table Cleaner

Great for use on table tops, anti-static mats, and work stations. Cleans without leaving streaks or film. Safe to use on any surface. Non-flammable, non-abrasive. One Quart with trigger spray. **(USA)**

No. 106CH001 1 Quart..... **$6.20**
No. 106CH6002 1 Gallon **$22.25**
No. 106CH410 5 Gallon **$120.00**

3M 8001 Static Mat Cleaner

Removes difficult spots, stains, dirt & grime. Leaves no tacky or corrosive residue. A safe, water-based formula authorized by the USDA meat and poultry plants. No rinsing required. Nonflammable. No chlorides or sulfides. Handy one quart bottles. **(USA)**

No. 780ST8001 ..... **$4.80/Ea.**
$4.25/Ea.

ESD Permanent Clear Coating

Staticide® ESD permanent clear coating is the only permanent electrostatic dissipative clear coating available to stop dangerous static electricity. Not a temporary anti-stat like other spray or wipe-on products. This static electricity problem solver may be applied to keyboards, computers, mice oscilloscopes, multi-meters, shelving, workstations, wherever dangerous static electricity threatens your electronic equipment. Meets EOS/ESD S11.11. **(USA)**

No. 106CH2500 ..... **$50.00**

Staticide®

General Purpose Staticide®

The attraction of dirt, dust and bacteria to environmental surfaces, products or packaging is a serious problem. Prevents damage or destruction of sensitive electronic components and sub-assemblies during manufacturing, shipment or receiving. **(USA)**

No. 106ST203 ..... **$8.40 Quart/Bottle**

Cleanroom Staticide®

Cleanroom version with special pour top. Pack 12 quarts/case. 30 lbs. **(USA)**

No. 106ST501 ..... **$21.15**

Heavy-Duty Staticide®

Ideal for eliminating static-electricity discharge on carpeting and fabrics; jamming or slipping of materials during printing, packaging or converting; or ignition of combustible vapors, dust or solvents, causing fire or explosion. One gallon covers approx. 2,000 to 2,500 square feet. Quart bottle. **(USA)**

No. 106ST205 **$14.30**/1-11 quarts
$13.30/12+ quarts

Staticide® Wipes

These extra-big wipes are perfect for cleaning CRT screens, electronic equipment and workstations. Protect sensitive equipment from costly static problems and prevent dust buildup. Individually foil wrapped, packaged 50 per dispenser box. **(USA)**

No. 106UN050 11" x 8" (1-5) **$26.80** (6+)**$24.92**
No. 106ST012 6" x 6"..... **$6.95**

ACL/Staticide®

Staticide Floor				
Product	4000 Static Acrylic	4500 Staticide Gold	4200 Staticide Zero VOC	4600 Staticide Ultra
V.O.C.	<7%	<7%	0%	<7%
Avg. Coverage	1500-2000 sq. ft./gallon	1500-2200 sq. ft./gallon	1500-2000 sq. ft./gallon	1500-2000 sq. ft./gallon
Gloss	Good	Good	Good	Excellent
Dry Time	1 hr.	3-5 hrs.	1-1/2 hrs.	1 hr.
Wearability	Up to 3-6 months	Up to 24 months	Up to 3-6 months	Up to 24 months
Size	1 Gal. Bottle	1 Gal. Bottle	1 Gal. Bottle	1 Gal. Bottle
TT No.	106CH400	106ST450	106CH4200	106CH4600
PRICE	$41.50	$56.00	$48.50	$50.00
Size	5 Gal. Bucket	5 Gal. Bucket	5 Gal. Bucket	5 Gal. Bucket
TT No.	106CH005	106CH4500	106CH4205	106CH4605
PRICE	$203.20	$249.50	$220.50	$225.00

Techni-Stat® ESD-Wipes

Ideal for handling delicate static sensitive parts, films, electronic instruments and printed circuit components, and are durable enough to be laundered for cost-effective multiple wash/wear usage. These high-performance, static-dissipative wipes are great for no surface chemical finishes or treatments that wear off or evaporate and are dust and lint-free continuous filament Nylon 66 yarn that is washable and reusable. Avg. Resistivity:< $10^{6}\Omega$/sq. ASTM D 257, Class 1-A. 6" x 6". 6 wipes/pkg. **(USA)**

No. 663ST220 ..... **$41.70**

3M Knitted Cloths

Scotch-Brite™ High Performance Cloth

Pickup dust, oil, and water with minimal linting. The Scotch-Brite™ High performance cloth's unique knit pattern of tufts and valleys allows both small and large particulates to be trapped within. The bi-components in the polyester and nylon microfibers allows for both oil and water absorption while the microfiber's ribbon-like shape provides the maximum surface area for the collection of dust. Use on surfaces such as: stainless steel, chrome, enamel, painted surfaces, plastics, glass, mirrors, windows, computer monitors, wood and marble. **Specs** 12.6" x 14.2"; wash up to 100 times; water absorption: 7.2g water per/g wipe; oil absorption: 7.1g oil per/g wipe. **50/Case. (USA)**

No. 105PR111 (2011-Blue) **$280.50**
No. 105PR112 (2011-White) **$280.50**
No. 105PR113 (2011-Green) **$280.50**
No. 105PR114 (2011-Yellow) **$280.50**
No. 105PR115 (2011-Red) **$280.50**

Finger Cots and Guards

Finger Cots

Ideal for use in environments where particle control is less important, but protection of your product from skin oils, salts and perspiration is required. **Rolled** (Small amount of Talc)

Latex Finger Cots

These mechanically rolled and cleaned powder finger cots can be used where particle control is less important, but protection of your product from skin oils, salts and perspiration is required. **10 Gross/Bag.**

No. 219ST010 Small..... **$33.35**
No. 129UN024 Medium **$33.35**
No. 129UN034 Large **$33.35**
No. 219ST011 X-Large..... **$33.35**

Nitrile Finger Cots

New!

These 100% powder-free Nitrile Finger Cots are rolled with maximum tear resistant and excellent fingertip dexterity, which provides strength and comfort for extended use. Guaranteed to contain no natural rubber, a perfect alternative for personnel with known allergies to latex. **Specs:** surface resitivity $10^{12}\Omega$/sq. **10 Gross/Pk.**

No. 678PR101 Small **$6.00**
No. 678PR102 Medium **$6.00**
No. 678PR103 Large **$6.00**

TECHNI-STAT

Class 100 Anti-Static Finger Cots

These finger cots are suitable for use with static discharge-sensitive devices with an average surface resisitivity of 2 x $10^{7}\Omega$/sq. Manufactured in an FDA registered facility and meets ASTM D 3772 requirements. Packaged in an electrostatic-free polybag. **5 Gross/Bag.**
(Not Shown)

No. 751ST180 Small..... **$26.00**
No. 751ST181 Medium..... **$26.00**
No. 751ST182 Large..... **$26.00**
No. 751ST183 X-Large..... **$26.00**

PVC Dots Dissipative Gloves

Made of breathable polyester fabric with woven conductive fibers that will not slough off and can be used in a clean room and general assemble. With the PVC dots palm and fingers you can pick up even the smallest components. **Specs:** Resistivity: <$10^{8}\Omega$/sq.; Charge decay time 5000V to 50V: <0.01 Secs: RTT Resistance: 2 x 10^{6}-5 x $10^{7}\Omega$/sq.; Construction back: Polyester/Carbon filament yarn; Charge Decay: <0.1sec. 1 dozen.

No. 205ST821 Small..... **$19.80**
No. 205ST822 Medium..... **$19.80**
No. 205ST823 Large..... **$19.80**

TECHNI-STAT

Dissipative Lint Free Gloves

New!

With a surface resistivity of <10^{8} these gloves provide effective static safe protection. Made of breathable polyester fabric with woven conductive fibers that will not slough off and can be used in a clean room and general assemble. **Specs:** Surface Resistivity: <10^{8}; Charge Decay Time 5000V to 50V: <0.01 seconds: RTT Resistance: 2 x 10^{6} - 5 x $10^{7}\Omega$/sq.; Construction: Polyester/Carbon filament yarn; Charge Decay: <0.1sec. **10/Pk.**

No. 205ST851 Small..... **$60.35**
No. 205ST852 Medium..... **$60.35**
No. 205ST853 Large..... **$60.35**

Static Dissipative Latex Finger Cots

Protect microcircuits and other delicate electronic components. Low-cost, convenient protection when whole hand coverage is not needed. Laboratory tests proved superior to *Mil B-817058, ASTM test D257* and *D3772*. These static-dissipative latex finger cots won't weaken with age and are guaranteed to have no holes, blisters, heavy spots, dust or embedded particles. Packed in heat-sealed conductive bags.
5 Gross/Bag.

Unrolled

No. 678ST004 Small..... **$26.50**
No. 678ST003 Medium..... **$26.50**
No. 678ST002 Large..... **$26.50**
No. 678ST001 X-Large **$26.50**

Rolled

No. 678ST101 Small..... **$26.50**
No. 678ST102 Medium..... **$26.50**
No. 678ST103 Large..... **$26.50**
No. 678ST104 X-Large **$26.50**

Split Leather Finger Guards

These finger guards feature in elastic back. **50/Bag.**

No. 751PR202 Small **$26.85**
No. 751PR203 Medium **$26.85**
No. 751PR204 Large **$26.85**

Saf-T-Tape®

Your industrial protection tape sticks only to itself – not to the skin. Allows the skin to breathe and you have no loss of finger sensitivity. The tape protects against bruises and skin burns, and protects against abrasive surfaces. 3/4" x 30yds. **16/Pk. (USA)**

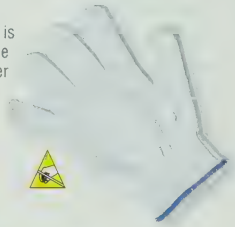
No. 583MI075..... **$17.35**

Kevlar Kleen Gloves

100% Kevlar Kleen yellow string knit light-weight, low-linting gloves provides a superior protection from cuts. Reduces bulk for an improved, non-binding fit while allowing an exceptionally high level of tactile sensitivity. ***1 Dozen/Pk.*** **(USA)**

No. 328PR086	SML	**$42.45**	**No. 328PR088**	LGE	**$42.45**
No. 328PR087	MED	**$42.45**	**No. 328PR089**	X/L	**$42.45**

Electrostatic Gloves



Electrostatic-dissipating, low-lint ESD glove is made of Thunderon Fiber with nylon carrier. The thunderon fiber is created by bonding copper sulfide to a host fiber. This makes these gloves perfect for cut-resistance in an ESD environment. ***1 Dozen/Pk.*** **(USA)**

No. 328PR220	SML	**$39.60**
No. 328PR221	MED	**$39.60**
No. 328PR222	LGE	**$39.60**

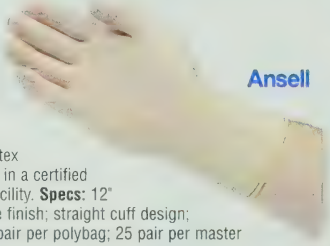
Flex ESD Gloves

New!

HyFlex ESD gloves with a knitted liner containing 30% X-Static fiber are extremely effective glove for electronic assembly work. In-use resistance is less than 1MΩ and its decay time is less than 0.1 second. **Specs:** Liner Resistivity: <0.001MΩ/sq.; Palm Coating: 39MΩ/sq. **12 pair.**

No. 328PR107	Size 7	**$81.40**	**No. 328PR109**	Size 9	**$81.40**
No. 328PR108	Size 8	**$81.40**	**No. 328PR110**	Size 10	**$81.40**

Latex Gloves



Ansell

Designed for wafer handling and clean- room operations. Anti-slip bisque finish provides a secure wet or dry grip. Lowest particulate levels per surface area among leading cleanroom-compatible latex gloves. Processed and packaged in a certified class 10, ISO 9002 cleanroom facility. **Specs:** 12" Length; 0.009" Thickness; bisque finish; straight cuff design; 3445/cm² typical particulates. 1 pair per polybag; 25 pair per master polybag; ***25 Gloves/Pk.*** **(USA)**

No. 328PR762	Size 6	**$30.60**	**No. 328PR766**	Size 8	**$30.60**
No. 328PR763	Size 6-1/2	**$30.60**	**No. 328PR767**	Size 8-1/2	**$30.60**
No. 328PR764	Size 7	**$30.60**			

Sol-Vex™ Gloves

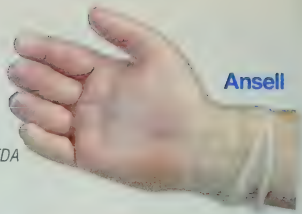
Ansell

Protect hands from chemicals like petroleum solvents, caustics and animal fats. Won't swell, weaken or degrade. Embossed finger tips. 9-mils thick. 13" OAL. ***12-Pair/Poly Bag.*** **(USA)**

No. 328UN115	(Size 6 – 6-1/2)	**$23.45/Dz**
No. 328UN116	(Size 7 – 7-1/2)	**$23.45/Dz**
No. 328UN117	(Size 8 – 8-1/2)	**$23.45/Dz**
No. 328UN118	(Size 9 – 9-1/2)	**$23.45/Dz**
No. 328UN119	(Size 10)	**$23.45/Dz**
No. 328UN120	(Size 11)	**$23.45/Dz**

5 mil Powder Free PVC Glove

Ansell

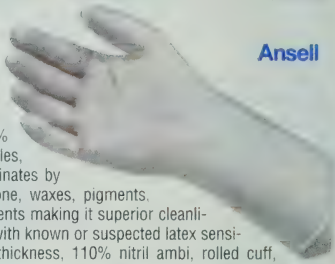


These disposable gloves are free of powdered for cleanliness for your controlled environments. Made of 100% polyvinyl chloride. *Meets FDA regulations.* Length 9-1/2" OAL. ***100 Gloves/Box***

No. 328PR112	SML	**$8.85/Bx**	**No. 328PR114**	LGE	**$8.85/Bx**
No. 328PR113	MED	**$8.85/Bx**	**No. 328PR115**	X/L	**$8.85/Bx**

Nitrilite® Gloves

Ansell



Solve many of the contamination problems in your cleanroom caused by vinyl and latex gloves. Nitrilite® gloves are designed specifically for controlled environments. The 100% nitrile gloves minimizes particles, extractables, and other contaminates by the complete absence of silicone, waxes, pigments, fillers, and powder stripping agents making it superior cleanliness. Ideal choice for persons with known or suspected latex sensitivity. **Specs:** 12" length, .40" thickness, 110% nitril ambi, rolled cuff, cleanroom compatible. 100 gloves per polybag; 10 polybags per case.

No. 328UN614	Small	**$15.30**	**No. 328UN616**	Large	**$15.30**
No. 328UN615	Medium	**$15.30**	**No. 328UN617**	X-Large	**$15.30**

Clean Room Nitrilite® Silky Utlra-Clean Gloves

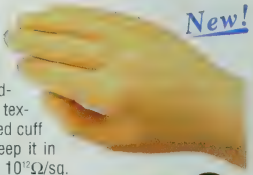
New!

Nitrilite® Silky Ultra-Clean is an ultra-low particulate and ultra-low extractable glove with exceptional electrical properties, and are double bagged and certified cleanroom 10. The soft flexible properties for great user fit and dexterity, provide long-term comfort and better efficiency in disk drive, semiconductor, electrical device manufacturing, biotech, and flat panel industries. **Specs:** Resistivity: $1x10^{11}$Ω/sq. at 12.5% humidity (ASTM D257) $1x10^{12}$Ω/sq at 50% humidity; Static Decay: <3 seconds @ 12.5% humidity, <1 second @ 50% humidity. **50 pair.**

No. 328PR322	Small	**$23.00**	**No. 328PR324**	Large	**$23.00**
No. 328PR323	Medium	**$23.00**	**No. 328PR325**	X-Large	**$23.00**

AccuTech™ Gloves

New!



Hand-specific natural rubber latex gloves for all applications requiring a high level of dexterity and grip. Exceptional dexterity is provided by ergonomically designed, hand-specific formers. AccuTech gloves have a textured finish for exceptional grip, and a beaded cuff which helps the user don the glove and keep it in position on the arm. **Specs:** Resistivity: 1 x 10^{12}Ω/sq. at 12.5% humidity (ASTM D257): Cleanroom Compatibility: ISO 9002: Protein Level: Below 50µg/gram. Tested per ASTM D. **50 pair.**

Ansell

No. 328PR331	Size 6	**$54.00**	**No. 328PR328**	Size 8	**$54.00**
No. 328PR321	Size 6.5	**$54.00**	**No. 328PR329**	Size 8.5	**$54.00**
No. 328PR326	Size 7	**$54.00**	**No. 328PR330**	Size 9	**$54.00**
No. 328PR327	Size 7.5	**$54.00**			

Critical Environment Gloves

These 100% recyclable, vinyl gloves are powder and particulate-free, anti-static and nonallergenic. They offer an alternative to latex and provide total protection in a variety of lengths and sizes.

Heat-sealed bag; *50/bag*

No. 605PR147	Small	**$126.00**
No. 605PR247	Med.	**$126.00**
No. 605PR347	Lg./XL	**$126.00**

Sealed blue, static shielding bag; *100/bag*

No. 605PR135	Small	**$150.00**
No. 605PR235	Med.	**$150.00**
No. 605PR335	Lg./XL.	**$150.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

RM N-Flex Gloves

These gloves feature a non-slip, silicon-coated surface; elastic, non-bright processed fabric; delicate, round-tip finishing and continuous filament, knitted with a carbon core. 100% cotton lining provides incredible comfort and sweat absorbency. Surface resistance: 10^9~$10^{11}\Omega$/sq. Ideal for micro-electronics and assembly applications. **10/Pk.**

No. 678ST041 Medium **$45.00**
No. 678ST042 Large **$45.00**

Utility Gloves - Cotton

An all-purpose glove. 100% soft, premium cotton; an economical throwaway, unhemmed handcovering. **12/Pk.**

No. 224UN046 .....(1-5) **$7.50/Dz.**
6 or more lots, each....(6+) **$7.10/Dz.**

All Natural. All Purpose.

100% Cotton Utility Glove

This standard weight, 100% cotton, slip-on String Knit Glove is reversible and available in sizes Small and Large. **(USA)**

No. 735SF026 Small ..... **$7.75/Dz.**
No. 735SF028 Large ..... **$7.75/Dz.**

ESD High Performance Glove

Static dissipative. New, continuous filament, conductive fiber. Complies to government specifications allowing them to be taken directly into work areas. Suitable for cleanroom applications. No carbon fibers or surface chemical finishes. Uniform resistivity. Ultra thin, lightweight and close fit. Comfortable to wear all day. Ends allergic reactions from latex. Used as a glove liner. One size fits all/ambidextrous. Seam-free construction. *Meets ASTM D 257 & MIL-B-81705 B Specs.* ***5 Pairs/Pk.***

No. 663UN210 ..... **$49.50**

ESD Glove

This 13 Gauge lightweight anti-static dissipating nylon glove has high dexterity, and is static dissipating. This seamless glove can be placed on either hand and is low linting. **(USA)**

New!

No. 656ST9000 Small **$40.80**
No. 656ST9100 Medium **$40.80**
No. 656ST9200 Large **$40.80**

Nylon Stretch Glove

This 13-gauge lightweight stretch nylon glove can be used with any application where high dexterity and low lint is a must. This stretch nylon seamless glove can be worn on either hand and has a snug fit. **(USA)**

No. 656PR730 Small..... **$14.60**
No. 656PR740 Medium..... **$14.60**
No. 656PR750 Large..... **$14.60**

RM Dissipative Glove

Ideal for micro-electronics, assembly and packaging, these gloves have an improved grip and elastic, non-bright processed fabric. They are made of 100% polyester, continuous filament knitted with carbon fiber. They feature delicate, round-tip finishing and a surface resistance of 10^9~$10^{11}\Omega$/sq. 10" OAL. **10/Pk.**

No. 678ST521 Medium **$32.00**
No. 678ST522 Large **$32.00**

Vinyl Gloves - Dust Free

Dust free, Class 10 ESD, ambidextrous, ultra-thin. Velvetized inside, slips on and off easily. 12" OAL. **100/Pk. (USA)**

No. 678UN014 Small
(1-4) **$20.55** (5-9) **$19.55** (10+) **$18.55**
No. 678UN012 Medium
(1-4) **$20.55** (5-9) **$19.55** (10+) **$18.55**
No. 678UN010 Large
(1-4) **$20.55** (5-9) **$19.55** (10+) **$18.55**

Class 10

Static-Dissipative Gloves

New static-dissipative latex formula. Protects sensitive microcircuits. Non-smudging black color. Vastly superior to MIL spec. Ultra thin for handling small parts. Supplied in pairs, powder free and washed in heat-sealed bags to assure protection and cleanliness. ***1 Pair.***

No. 678ST107 Size 7..... **$8.00/PR**
No. 678ST108 Size 8 ..... **$8.00/PR**
No. 678ST109 Size 9 ..... **$8.00/PR**

With "Sensi-Touch"

Minimizes Allergic Reactions and Rashes!

Cleanroom Gloves

Designed for parts handling or wearing under latex, rubber or vinyl gloves to avoid clamminess or sweating. The gloves combine thinness and a close fit and are dust and lint free. They offer natural sensitivity, flexibility, dexterity, less bulk and a universal size–*one size fits all.* **Specs:** resistant to chemicals and mildew; absorbs body oils and moisture to keep hands dry and comfortable; size: universal (6-1/2 – 9); heat resistance: 250° air temp @ 15 mins.; water absorption: >4%; fiber: 100% special PHA continuous fiber. ***5 Pairs/Pk.***

No. 663UN113 ..... **$14.95**
No. 663UN132 Extra thin **$16.95**

Ansell-Edmont Conform® Natural Rubber Latex Gloves

100% Natural rubber latex, powder-free, textured grip, 5 mil, Class I Medical Device. Caution: This product contains natural rubber which may cause an allergic reaction in some individuals. Natural Yellow. **100/Pk.**

No. 328PR702 Small..... **$11.60**
No. 328PR318 Medium..... **$11.60**
No. 328PR319 Large..... **$11.60**
No. 328PR320 X-Large **$11.60**

Smocks

Econoshield 3/4 Length Smock

Econoshield is designed for performance, comfort and low-cost, static-control shielding. This traditional-style 3/4 length coat is made of 98% polyester, 2% BASF ResistatTM fiber. Surface resistivity is 106 Ω with no deterioration after 50 washings. Meets FR requirements. (Available in sizes XS-5XL). Diamond Blue. (USA)

Small
No. 766ST428 .... **$28.90**
Medium
No. 766ST429 .... **$28.90**
Large
No. 766ST430 .... **$28.90**
X-Large
No. 766ST431 .... **$28.90**

Disposable Cleanroom Visitor Kit

The Disposable Cleanroom Visitor Kit has everything you need properly dress visitors for your cleanroom. All garments are processed to accurate compatibility in Class 100 environments. Made from Dupont Tyvek®, which provides a lightweight, low-linting, antistatic, superior barrier. Double bag kit includes: Hood; Pair of Boots; Face Mask; Coverall. **(USA)**

No. 251ST221 Large **$19.90**
No. 251ST222 X-Large **$19.90**
No. 251ST223 2X-Large **$19.90**

Unisex Lightweight Static Control Jackets

These v-neck garments are constructed of lightweight, 40 denier static control fabric that is 87% polyester, 13% BASF Resistat®, with a surface resistivity of 1 x 10^6Ω/sq, and static decay of 5000V to 0 less than 0.1 second. Garments have sleeve-to-sleeve continuity and can be grounded by a 1/8" male snap on the hip pocket. **Color: Blue. (USA)**

V-Neck Jacket With Knit Cuff

No. 766ST004 Small **$48.55**
No. 766ST006 Medium **$48.55**
No. 766ST008 Large **$48.55**
No. 766ST010 X-Large **$48.55**
No. 766ST012 2X-Large **$51.95**

Jacket, V-Neck With No Cuff

No. 766ST016 Small **$38.10**
No. 766ST018 Medium **$38.10**
No. 766ST020 Large **$38.10**
No. 766ST022 X-Large **$38.10**
No. 766ST024 2X-Large **$40.75**
No. 766ST019 3X-Large **$43.00**
No. 766ST071 4X-Large **$47.60**

Lab Coats & Jackets

WORKLON

A. Lightweight Knit-Stat® 3/4 Length Coats

Perfect for a microelectronic company's repair, testing, packaging and other cleanroom peripheral areas were ESD is crucial. These 3/4 length coats are made with Knit-Stat®- 89% Polyester knit with 11% a carbon nylon diamond grid. Snap-front closure, V-Neck collar, three patch pockets, and adjustable snap wrists. Color-coded hang loops denote size. **Blue**. (Assembled in El Salvador)

Size	Blue	PRICE
X/S	362PR3461	$38.85
SML	362PR3462	$38.85
MED	362PR3463	$38.85
LGE	362PR3464	$38.85
X/L	362PR3465	$38.85

B. Microstat® Suffused Lab Coats

These ESD lab coats are ideal for static control in areas where static control remains critical. These Microstat® jackets are made of woven 65% polyester, 34% cotton, 1% carbon suffused nylon grid; snap-front closure; man-tailored lapel collar; three patch pockets; and adjustable snaps at wrists. Silica Blue or White. **(USA)**

Size	Silica Blue	PRICE
X/S	362PR4731	$38.70
SML	362PR4732	$38.70
MED	362PR4733	$38.70
LGE	362PR4734	$38.70

Size	White	PRICE
SML	362PR4631	$38.70
MED	362PR4632	$38.70
LGE	362PR4633	$38.70
X/L	362PR4634	$38.70

C. Static Dissipative Lab Coat

This the static-dissipative lab coat is made from Teijinselguard® Selguard II 99% polyester woven with 1% carbon yarn grid. Snap front and man-tailored lapel collar, with three patch pockets, and pocket access slits. Adjustable snaps at wrists, and color coded hang loop denotes size. White. **(USA)**

Size	White	PRICE
X/S	362PR3451	$49.25
SML	362PR3452	$49.25
MED	362PR3453	$49.25
LGE	362PR3454	$49.25
X/L	362PR3455	$49.25
XX/L	362PR3456	$49.25

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TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Adjustable Super Erecta Shelf® Wire Shelving™

Super Erecta Wire Shelving is advanced and innovative. The unique Corner Release System and SiteSelect™ Posts make changing shelf levels fast and easy, without tools! SiteSelect Posts with the triple-groove visual guide feature, have circular grooves at 1" intervals and are numbered at 2" intervals to save you time during assembly or adjustment. Your shelves simply snap into place using the Corner Release. The open wire design of these heavy-gauge, chrome-plated shelves minimizes dust accumulation and allows a free circulation of air, greater visibility of stored items and greater light penetration. Loaded and unloaded shelves from all sides.**(USA)**

Easy as 1, 2, 3.....Pick your Shelves.....Pick your Posts.....

Super Electra Wire Shelves

18"W Wire Shelves			21"W Wire Shelves			24"W Wire Shelves		
No. 474AC830	30"L	$53.00	No. 474AC130	30"L	$58.00	No. 474AC430	30"L	$62.00
No. 474AC836	36"L	$54.00	No. 474AC136	36"L	$62.00	No. 474AC435	36"L	$65.00
No. 474AC842	42"L	$60.00	No. 474AC142	42"L	$68.00	No. 474AC442	42"L	$73.00
No. 474AC848	48"L	$63.00	No. 474AC148	48"L	$71.00	No. 474AC447	48"L	$78.00
No. 474AC854	54"L	$73.00	No. 474AC154	54"L	$80.00	No. 474AC454	54"L	$88.00
No. 474AC860	60"L	$74.00	No. 474AC161	60"L	$83.00	No. 474AC459	60"L	$92.00
No. 474AC872	72"L	$87.00	No. 474AC172	72"L	$100.00	No. 474AC471	72"L	$108.00

Super Electra SiteSelect™ Posts

SiteSelect™ Posts are grooved at 1" increments and numbered at 2" increments. Posts are triple grooved every 8", for easy identification. (For maximum stability, units should be kept as wide and as low as possible.

No. 474AC007	7-5/8"H	$8.00	No. 474AC053	54-9/16"H	$16.00
No. 474AC003	14-1/2"H	$10.00	No. 474AC062	62-9/16"H	$17.00
No. 474AC027	27-1/2"H	$12.00	No. 474AC071	74-5/8"H	$19.00
No. 474AC033	34-1/2"H	$13.00	No. 474AC086	86-1/2"H	$23.00

SMT Reel Shelving

Your efficient method of storage and transport for standard-size component reels. The chrome-plated shelves can be mixed and matched with standard Super Erecta shelving, posts and casters to create a reel-handling-and-storage system. ESD classification: *(Conductive with the use of aluminum split sleeves.)*

Handles reel size - 7"; Reel capacity - 78. (18"W x 36"L x 3.75"H)
No. 474AC837 ..... $78.00

Handles reel size - 13"-15"; Reel capacity - 15. (18"W x 36"L x 4.25"H)
No. 474AC838 ..... $71.50

Aluminum Split Sleeves
No. 474AC886 ..... $5.00

Super Erecta Wire Shelving

This wire shelving uses the proven method, shelves can be readjusted at precise 1" increments along the length of the numbered posts. All Super Erecta posts come standard with adjustable leveling feet to compensate for uneven floors. **(USA)**

No. 474BE824	18"W x 24"L	$43.00
No. 474BE340	18"W x 30"L	$49.00
No. 474AC183	18"W x 36"L	$50.00
No. 474BE342	18"W x 42"L	$56.00
No. 474BE343	18"W x 54"L	$69.00
No. 474BE344	18"W x 60"L	$70.00
No. 474BE345	18"W x 72"L	$83.00
No. 474BE346	24"W x 24"L	$54.00
No. 474BE347	24"W x 30"L	$58.00
No. 474BE348	24"W x 36"L	$61.00
No. 474BE349	24"W x 42"L	$69.00
No. 474BE350	24"W x 48"L	$74.00
No. 474BE354	24"W x 54"L	$84.00
No. 474BE355	24"W x 60"L	$88.00
No. 474BE356	24"W x 72"L	$104.00

A. Super Erecta ESD Vinyl Blue Inlays

No. 474BE359	18" x 36"	$22.00
No. 474BE360	18" x 48"	$29.00
No. 474BE361	18" x 60"	$35.00
No. 474BE362	24" x 36"	$29.00
No. 474BE368	24" x 48"	$37.50
No. 474BE370	24" x 60"	$46.00

B. Non-Conductive Sleeves/Wedges (Package of 4 per shelf)
No. 474BE351 ..... $4.50

ESD Kit (Package of 4 conductive wedges, sleeves, and releases per bag)
No. 474BE352 ..... $20.00

"S" Hooks
Used to "add-on" shelving units with only posts required.
No. 474BE353 ..... $2.00

A

B

METRO

qwikSLOT™ Security Trucks

These stationary and mobile security trunks feature heavy-gauge, chrome-finish, open-wire construction that provides visibility of inventory while protecting against pilferage. Double doors open wide for easy access; optional intermediate shelves can be easily added, removed or repositioned. Units are shipped knocked-down, and are easily assembled. *ESD classification: Conductive with the use of ASK16S Grounding Cable.* **(USA)**

Stationary qwikSLOT™ SEC Units
No. 474AC953 27-1/4"W x 38-1/2"L x 66-13/16"H **$860.00**
No. 474AC955 27-1/4"W x 50-1/2"L x 66-13/16"H **$1064.00**
No. 474AC956 27-1/4"W x 62-1/2"L x 66-13/16"H **$1155.00**

Standard-Duty Mobile qwikSLOT™ SEC Units
No. 474AC853 27-1/4"W x 40-3/4"L x 68-1/2"H **$1005.00**
No. 474AC855 27-1/4"W x 52-3/4"L x 68-1/2"H **$1222.00**
No. 474AC856 27-1/4"W x 65"L x 68-1/2"H **$1309.00**

Heavy Duty Mobile qwikSLOT™ SEC Units
No. 474AC753 28-1/16"W x 38-1/2"L x 67-7/8"H **$1275.00**
No. 474AC755 28-1/16"W x 50-1/2"L x 67-7/8"H **$1504.00**
No. 474AC756 28-1/16"W x 68-1/8"L x 67-7/8"H **$1595.00**

Intermediate Shelves for all qwikSLOT™ SEC Units
No. 474AC2436 24"W x 36"L **$60.50**
No. 474AC2448 24"W x 48"L **$73.00**
No. 474AC2460 24"W x 60"L **$93.00**

Grounding Cable
No. 474AC166 ..... **$15.00**

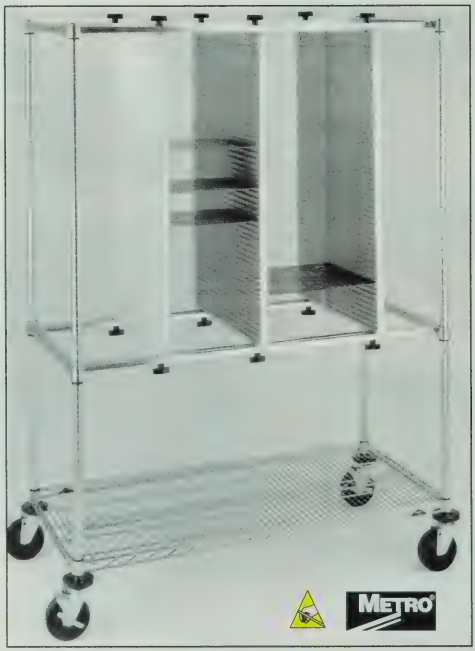
Other sizes and models available. Call for information.

Horizontal Hold Carts - Heavy Duty

High-density cart with 3/8" deep slides for positive board capture provide 48 levels for circuit boards and 11/16" on center spacing for volume loading. Center panel (included) features slides on both sides, accepting boards up to 22-1/2"L and up to 1/2"T. Standard units includes two end, and one center panel. ESD Classification: Conductive. **Specs:** Max. board size w/o center panel: 22-1/2" x 30-1/4"; 24"W x 36"L x 68"H. **(USA)**
No. 474AC536 ..... **$1733.00**

Specs: Max. board size w/o center panel: 22-1/2" x 42-1/4"; 24"W x 48"L x 68"H
No. 474AC556 ..... **$1754.00**

Double-Sided center panel for CBL Horizontal Hold Carts Specs: 23-1/2"W x 37-1/4"L x 1-5/8"H
No. 474AC992 ..... **$557.00**



METRO

Universal PCB Cart (CBX Style)

This is your complete PCB handling and storage system, with the flexibility to adapt to your changing needs. The conductive polymer CBX panel allows board transport and storage horizontally, diagonally or vertically. Horizontal slots are 1/8" deep on 1/2" centers, with slanted slots on 1" centers. Vertical capture is obtained by ordering the optional vertical hold panel kit. Your cart contains: 4 posts, 4 poly casters (2 brake, 2 swivel), 1 chrome wire bottom shelf, 2 CBX panels, and drag cable. ESD Classification: Conductive. Specs: 26"W x 26"L x 60"H; Max PCB size: 17" x 24"; Max No. horiz. PCB's: 65; Max No. slanted PCB's: 30. **(USA)**
No. 474AC515 ..... **$1155.00**

Vertical Hold Panel Kit

Size: 17"L x 24"W x 1"D for cart CBX515EC
No. 474AC051 ..... **$184.00**

Specs: 26"W x 38"L x 60"H; Max PCB size: 24" x 29"; Max No. horiz. PCB's: 65; Max No. slanted PCB's: 30
No. 474AC535 ..... **$1260.00**

Size: 24"L x 29"W x 1"D for cart CBX535EC
No. 474AC153 ..... **$376.50**

Double-Sided Panel,
Size: 24"L x 35"W x 1"D
No. 474AC002 ..... **$431.00**

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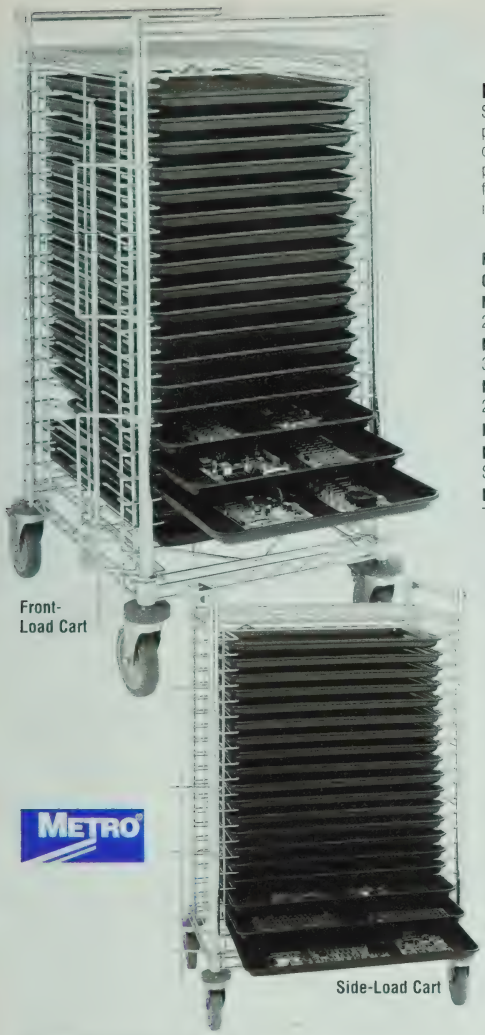


METRO

Electronics Tray Carts

Save time and money with this tray cart system the latest trend in electronics production component storage and handling. Designed with an inherently flexible ESD trays that will handle different size PCBs and subassemblies. With increased yields and throughput these systems provide reduced WIP handling damage. **Features:** anti-tip design prevent trays and contents from tipping; (2) ergonomic handles; vibration suppression casters; (2) brake casters; grounding cable; (2) stop bars (front and back); lightweight wire design. **(USA)**

Front Load Cart with Conductive Trays and Inlays

No. 474PR201
20 Trays, 28"W x 22"L **$1827.00**

No. 474PR301
30 Trays, 28"W x 22"L..... **$2499.00**

No. 474PR202
20 Trays, 22"W x 30"L **$1827.00**

Front-Load Cart without Trays & Inlays

No. 474PR203
Short, 20 Trays, 28"W x 22"L **$651.00**

No. 474PR303
Tall, 30 Trays, 28"W x 22"L **$735.00**

Side-Load Cart

No. 474PR204
20 Trays, 22"W x 30 L..... **$651.00**

ESD Trays - 25-3/4"W x 17-7/8"L x 1-1/8"

No. 578PR000
Conductive Tray - Black **$27.00**

No. 474PR101
Static Dissipative Tray - Natural **$32.00**

ESD Tray Inlay - 24-1/8"W x 16-1/8"L

No. 474AC100 Blue **$27.00**

FibreStat 2000 Conductive Trays

Protect electronic components, assemblies, loaded printing circuit boards, and other static-sensitive parts without requiring surface treatment with these FibreStat 2000 ESD Static Trays. **Specs:** Conductive: <$10^5\Omega$/sq. *Meets ASTM D-257.* **(USA)**

25-3/4" x 17-7/8" x 1-1/8" Tray
No. 578PR000 ..... **$33.15**

18" x 14" x 1" Tray
No. 578PR318 ..... **$21.35**

22-1/2" x 20" x 1" Tray
No. 578PR218 ..... **$33.80**

27" x 20" x 1" Tray
No. 578PR217 ..... **$40.10**

19-1/2" x 19-1/2" x 1-1/4" Tray
No. 578PR629 ..... **$34.25**

24-1/4" x 24-1/4" x 1-7/8" Tray
No. 578PR209 ..... **$61.25**

30" x 20" x 2" Tray
No. 578PR608 ..... **$54.65**

22" x 22" x 3/4" Pallet
No. 578PR228 ..... **$51.70**

QESD Utility Carts

The QESD Utility Carts feature removable soft conductive mats that is ideal for transporting electronics WIP. Carts come in a compact footprint with undershelf Olympic tote storage available as an option. Designed to be conductive with the use of a grounding cable or conductive casters. **(USA)**

No. 474PR830 18"W x 30"L **$355.00**
No. 474PR836 18"W x 36"L **$369.00**
No. 474PR430 24"W x 30"L **$379.00**
No. 474PR436 24"W x 36"L **$383.00**

Handles
No. 474PR180 18" **$37.00**
No. 474PR240 24"..... **$41.00**

Super Slide
Chrome-plated undershelf slide fits all 24" wide QESD shelves. 10-1/4"H x 20-3/8"W x 21-5/8 L
No. 474PR200 ..... **$82.50**

Grounding Cable and Universal Bracket
Universal bracket fits wire and solid shelves, as well as open-wire frames
No. 474PR160 ..... **$34.00**

Paperwork Basket
This chrome-plated basket measures 2-5/8"W x 12-3/4 L x 8-3/4
Hand is ideal for storing files and paperwork.

Stackable Bins, Totes and Accessories

Bentron™ Black Divider Totes

Electrically conductive for production and manufacturing. Meets ESD standards per EIA-541 and DOD-263A, with proper paddle to ground. OHMS/square: 10 to 10^5. **(USA)**

Benstat™ Blue Divider Totes

Static dissipative for cleanroom, laboratories and pharmaceutical manufacturing. Meets ISD standards per EIA-541 and DOD-263A wife proper paddle to ground. OHMS/square: 10^5-10^{12}. **(USA)**

JUST THE FACTS

	Bentron Black Conductive	PRICE	Benstat Blue Dissipative	PRICE	Outside Dims. L"	W"	H"	Max Long	# Div Short
A	474ST1060	$13.15	474CA061	$13.15	10-7/8	8-1/4	6	5	7
B	474ST2035	$14.50	607ST932	$14.50	16-1/2	10-7/8	3-1/2	7	11
C	474ST2050	$23.55	474AC050	$23.55	16-1/2	16-1/2	5	11	11
D	607ST2060	$17.70	474ST2060	$17.70	16-1/2	10-7/8	6	7	11
E	607ST080	$22.45	607ST944	$22.45	16-1/2	10-7/8	8	7	11
F	607ST050	$34.65	474ST050	$34.65	22-1/2	17-1/2	5	11	15
G	607ST060	$36.70	474CA060	$36.70	22-1/2	17-1/2	6	11	15
H	607ST930	$44.35	607ST956	$44.35	22-1/2	17-1/2	8	11	15
J	607ST120	$53.80	607ST512	$53.80	22-1/2	17-1/2	12	11	15

Dividers For Tote Boxes (Above)

Vertical dividers allow customization of any olympic divider box into compartments of various sizes. **(USA)** ***Other size dividers available - call.***

JUST THE FACTS

Bentron Black	PRICE	Benstat Blue	PRICE	Type	L"	H"	For Divider Totes Above
474ST035	$2.70	474ST2036	$2.70	LONG	14-7/8	3.0	B, D, E
607MI080	$5.30	607ST946	$ 5.30	LONG	14-7/8	7-1/2	E
607MI050	$4.50	474ST3030	$ 4.50	LONG	20-7/8	2-1/2	B, D, E, J
474ST060	$5.30	474ST3060	$ 5.30	LONG	20-1/8	5-1/2	D, E, J
607MI930	$6.80	607ST958	$6.80	LONG	20-1/8	7-1/2	E, J

Snap-On Divider Box Covers

Recommended for use on totes to be stored or transported by their lip to minimize interference. **(USA)**

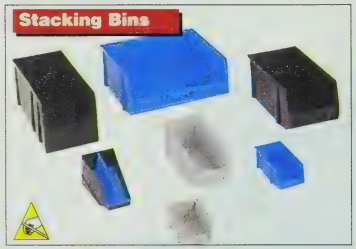
JUST THE FACTS

Bentron Black Conductive	PRICE	Benstat Blue Dissipative	PRICE	Type	Outside Dims L"	W"	H"	For Tote Box
607MI920	$12.75	607ST962	$12.75	SNAP-ON	16-1/2	10-7/8	1-1/4	920000 Series
607MI390	$22.00	607ST964	$22.00	SNAP-ON	22-1/2	17-3/8	1-1/4	930000 Series

Benstat™ Card Holders

JUST THE FACTS

Benstat Blue	PRICE	Clear Vinyl	PRICE	H"	L"	Fits
474AC2501	$1.60	474AC501	$1.90	4	8	6" and Up
474ST535	$1.80	–	–	3	5	5" and Up

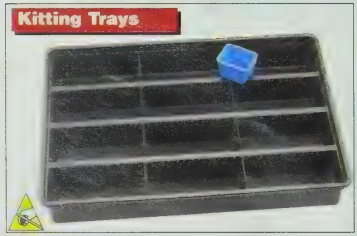


Stacking Bins

Stacking bins are injection molded from polypropylene-base resins in static-dissipative blue Benstat or black, conductive Bentron compounds. All sizes have an hopper front for easy access to contents and a slot on the back for use on bins bars. **(USA)** ***Other sizes available - call.***

JUST THE FACTS

Bentron Black Conductive	PRICE	Benstat Blue Dissipative	PRICE	Outside Dims L"	W"	H"
474ST0443	$3.70	607ST443	$3.70	5.62	4.12	3.00
607ST743	$4.90	607ST907	$4.90	7.38	4.14	3.00
474PR055	$11.90	474ST1055	$11.90	10.88	5.50	5.00
474ST1587	$23.70	474ST587	$23.70	14.75	8.25	7.00
474ST1516	$29.20	474ST516	$29.20	14.75	16.50	7.00



Kitting Trays

Kitting Trays provide compartmentalization for small parts or components and are available in Benstat, Bentron polypropylene-base materials. **(USA)** ***Kitting tray covers available - call.***

JUST THE FACTS

Bentron Black Conductive	PRICE	Benstat Blue Dissipative	PRICE	Outside Dims L"	W"	H"	# of Compartments
474ST0903	$18.00	607ST903	$18.00	15.12	9.62	1.75	24
607ST909	$17.65	474ST0909	$17.65	16.00	10.75	2.50	9
607ST912	$17.65	474ST0912	$17.65	16.00	10.75	2.50	12

Cups

Bentron Black Conductive	PRICE	Benstat Blue Dissipative	PRICE	Type	Outside Dims L"	W"	H"
607ST515	$1.50	607ST516	$1.50	Single	2.12	1.62	1.50
607MI530	$1.75	607ST153	$1.75	Double	3.38	2.12	1.50

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Tektronix

TekScope THS 730A

NIST CERTIFICATE *Included at NO Extra Charge*

Real-Time Performance For Service Technicians!

Tektronix Hand-Held Digital Oscilloscopes

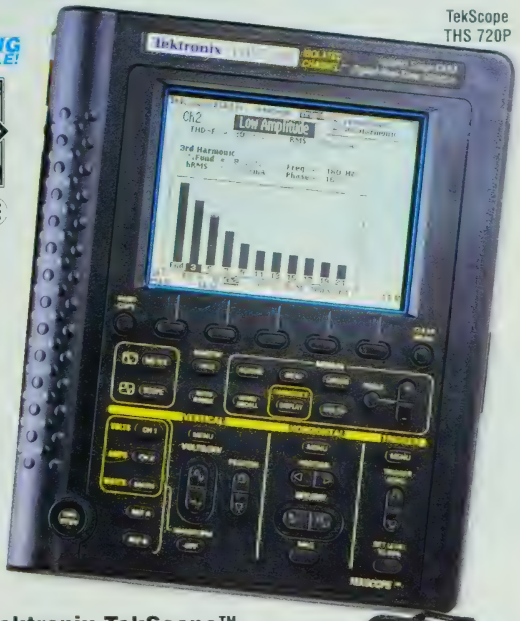
TekScope THS 720A & 730A

The TekScope™ THS700A Series Scope/DMM combines a full-featured Digital Real-Time oscilloscope with a True RMS digital multimeter in rugged, battery-operated instruments. Scope and meter modes can operate simultaneously and independently on the same or separate signals. The high-resolution, backlit display and pop-up menus make it easy for users to take full advantage of the instrument's many features. These include cursors, video trigger, voltage and resistance measurements and storage of ten setups and ten waveforms. In addition, it offers the most comprehensive triggering capabilities – external trigger and extensive triggering including delay, pulse width, video and TV and isolated channel safety. **The THS730A, THS720A, Handheld Digital Oscilloscopes include:** Two P6117 10X passive probes, user manual, standard meter lead set, NiCd rechargeable battery pack, AC power adapter, soft carrying case, cable and adapters for RS-232, NIST-traceable certificate of calibration.

LEASING AVAILABLE!

BEST TEST 1996

TekScope THS 720P



THS720P TekScope™ Isolated Channel Scope/DMM

The THS720P TekScope™ Isolated Channel Scope/DMM is ideal for electric/power electronics applications. It combines a full-featured 100 MHz bandwidth and 500 MS/s sample rate Digital Real-Time oscilloscope with a True RMS digital multimeter in a rugged, battery-operated instrument. Scope and meter modes can operate simultaneously and independently on the same or separate signals. The high-resolution, backlit display and pop-up menus make it easy for users to take full advantage of the instrument's many features. The THS720P can test and verify correct operation of motors, transformer efficiency, power-supply performance and the effect of neutral current.
Features: Harmonics up to 31st; Automatic power measurement with statistics; PWM electric motor drive trigger; 500 MS/s sampling rate per channel; Two channels/digitizers plus external trigger; 3-3/4 digit DMM with datalogger; Roll mode; Full floating measurement capability up to 600 VRMS; 21 automatic measurements; Isolated ChannelTM Architecture; High-voltage probes up to 1 kV. **Includes:** Two P5102 10X passive probes, user manual, standard meter lead set, NiCd rechargeable battery pack, AC power adapter, soft carrying case, cable and adapters for RS-232, NIST-traceable certificate of calibration.
Call 1-610-941-2400 for Accessories!

Accessories

P5102 High-Voltage Probe
No. 767AC102 (P5102) **$225.00**

Carrying Case
No. 767CA007 (THS7HCA) .. **$279.00**

Battery And Charger
No. 767AC720 (THS7CHG) **$295.00**
No. 767AC077 (THS7BAT) **$85.00**

Rack Mount Accessory kit
No. 767TE024 (RM200) **$200.00**

Tektronix TekScope™ THS700 Companion™

Includes: Oscilloscope Probe (X10, 150 MHz), Test Lead Set, Probe Bodies with .080" dia. Plug Tip, Maxigrabber™ Test Clips with Jaws and Pincer, Large Safety Alligator Clips, and Large Briefcase-Style Case. 14"L x 16-1/2"W x 4-1/2"D.
No. 458TE613 ..... **$375.00**

JUST THE FACTS

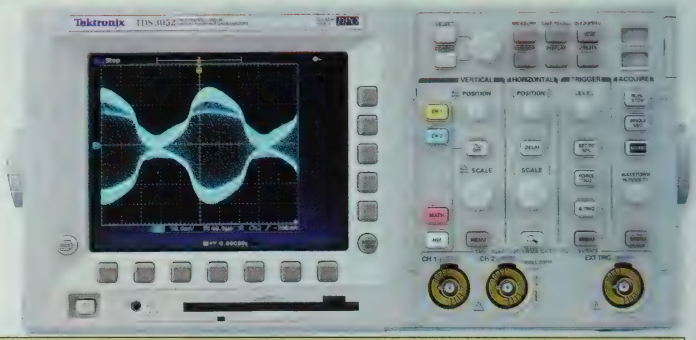
Model	TekScope THS 720A	TekScope THS 730A	TekScope 720P
TT No.	767TE800	767TE803	767TE720
Bandwidth	100 MHz	200 MHz	100MHz
Channels	2	2	2
Digitizers	2	2	2
Max Sample Rate	500 MS/s/chan	1GS/s/chan	500MS/s/chan
Time/Div Ranges	5ns/div - 50s/div	2ns - 50 s/div	5ns - 50 s/div
Horizontal Accuracy	±200 ppm	±200 ppm	±200 ppm
Vertical Sensitivity	5 mV to 50 V/div	5 mV to 50 V/div	5 mV to 50 V/div
Glitch Capture	≥ 8 ns	≥ 8 ns	≥ 8 ns
Max Record Length	2500 points	2500 points	2500 points
Waveform Storage	10 waveforms +10 set-ups	10 waveforms +10 set-ups	10 waveforms +10 set-ups
Advanced Triggering	Video & Pulse-width	Video & Pulse-width	Video & Pulse-width
Warranty	3 Year	3 Year	3 Year
PRICE	$2445.00	$3395.00	$3295.00

GSA Advantage!

Tektronix

BETTER THAN ANALOG...BETTER THAN DIGITAL...GET BOTH IN ONE!

Make dealing with complex signals simple with the portable Digital Phosphor Oscilloscopes. DPOs have an intensity-graded color display that provides information about the frequency of occurrence of signal amplitudes and widths. This helps the user locate and characterize waveform anomalies that can be elusive on traditional digital storage oscilloscopes. The TDS3000 Series graphical user interface offers a new operating mode call Quick-Menu. This quick access user interface makes the main oscilloscope controls accessible with a push of a single button. ***Three-Year Warranty.***



JUST THE FACTS

MODEL	TDS3012	TDS3032	TDS3052	TDS3014	TDS3034	TDS3054
TT NO.	**767TE016**	**767TE032**	**767TE052**	**767TE015**	**767TE033**	**767TE054**
Bandwidth	100MHz	300MHz	500MHz	100MHz	300MHz	500MHz
Channels	2	2	2	4	4	4
Sample Rate	1.25GS/s	2.5GS/s	5GS/s	1.25GS/s	2.5GS/s	5GS/s
Maximum Record Length	10k	10k	10K	10K	10K	10k
Vertical Resolution	9-bits	9-bits	9-bits	9-bits	9-bits	9-bits
Vertical Sensitivity (/div)	1mV-10V	1mV-10V	1mV-10V	1mV-10V	1mV-10V	1mV-10V
Vertical Accuracy	±2%	±2%	±2%	±2%	±2%	±2%
Position Range	±5 div	±5 div	±5 div	±5 div	±5 div	±5 div
Max Input voltage (1MΩ)	150V RMS CAT 1	150V RMS CAT 1	150V RMS CAT 1	150V RMS CAT 1	150V RMS CAT 1	150V RMS CAT 1
BW Limit	20MHZ	20, 150MHZ	20,150MHz	20,150MHz	20, 150MHz	20, 150MHz
Input Impedance	1MΩ in parallel with 13pf, or 50Ω	1MΩ in parallel with 13pf, or 50Ω	1MΩ in parallel with 13pf, or 50Ω	1MΩ in parallel with 13pf, or 50Ω	1MΩ in parallel with 13pf, or 50Ω	1MΩ in parallel with 13pf, or 50Ω
Time Base Range(/div)	4ns-10s/div	2ns-10s/div	1ns-10s/div	4ns-10s/div	2ns-10s/div	1ns-10s/div
Color Display	Yes	Yes	Yes	Yes	Yes	Yes
Warranty	3-Years	3-Years	3-Years	3-Years	3-Years	3-Years
PRICE	**$2995.00**	**$3695.00**	**$5995.00**	**$4495.00**	**$6595.00**	**$9995.00**

TDS3GM Communications Module
GPIB (IEEE-488.2) Programmability: Full talk/listen modes; control of all modes, settings, and measurements. ***Three-Year Warranty.***
No. 767TE055 (TDS3GM) **$395.00**

TDS3VM Communications Module
VGA: Monitor output for direct display on large VGA-equipment monitors. DB-15 female connector, 31.6kHz sync rate, EIA. ***Three-Year Warranty.***
No. 767TE056 (TDS3VM) **$395.00**

TDS 3000 FFT Application Module
Adds FFT measurement capabilities in dB or linear RMS scales. Selection of four FFT windows (Rectangular, Hamming, Hanning, and Blackman-Harris) are provided.
No. 767TE057 (TDS3FFT) **$495.00**

TDS 3000 Extended Video Application Modules
Adds line count triggering, custom video scan and field rates, read out in mV or IRE units, and includes 75Ω terminator.
No. 767TE059 (TDS3VID) **$495.00**
TDS 3000 GPIB and RS232 Interfaces.
No. 767TE055 (TDS3GM) **$395.00**
GPIB to LAN adapter.
No. 767TE007 ..... **$995.00**
TDS 3000 Battery pack for up to two hours continuous operation without line power. Note: the instrument must be grounded at all times.
No. 767TE063 (TDSBAT) **$395.00**

TDS 3000 Advanced Trigger Application
Adds Logic and Pulse triggering. Logic Pattern: Specifies AND, OR, NAND, NOR when true of false for a specific time. State: Any logic state. Triggerable on rising or falling edge, of a clock. Edge Delay: Trigger when second signal goes true a specified time period after a first signal goes true. Pulse Width: Trigger on pulse width less than, greater than, equal to, or not equal to a selectable time limit ranging from 39.6ns to 50s and more.
No. 767TE058 (TDS3TRG)..... **$495.00**

Customize Your TDS3000 for Telecommunications Masking

The TDS3000 oscilloscope, combined with the TDS3TMT telecommunications mask testing application module, provides telecommunication network manufacturing engineers breakthrough speed capabilities, at the lowest price per channel, for testing digital network interface cards up to 45Mb/s. The TDS3EM module enables your TDS3000 series customers to use and remotely control their scope over a 10BaseT Ethernet. It also enables customers to print directly to a network printer. With Wavestar 2.3, modification to built-in industry standard masks is quickly and easily accomplished in a familiar Windows environment. You can easily browse the TDS3000 and transfer instrument files to and from their Windows desktop.

Telecom Standard	ANSI	Data Rate (Mb/s)	Recommended Oscilloscopes						Optional Input Adapter	Custom Mask	Connectivity GPIB
			TDS 3012	TDS 3014	TDS 3032	TDS 3034	TDS 3052	TDS 3054			
ITU-T G.703	T1.102										
DS1	DS1	1.544	X	X	X	X	X	X	AFTDS	TDS3TMT	TDS3GM
E1	DS1A	2.048	X	X	X	X	X	X	AFTDS	TDS3TMT	TDS3GM
	DS1C	3.152	X	X	X	X	X	X	AFTDS	TDS3TMT	TDS3GM
DS2	DS2	6.312	X	X	X	X	X	X	AFTDS	TDS3TMT	TDS3GM
E2		8.448	X	X	X	X	X	X	AMT75	TDS3TMT	TDS3GM
E3		34.368			X	X	X	X	AMT75	TDS3TMT	TDS3GM
DS3	DS3	44.736			X	X	X	X	AMT75	TDS3TMT	TDS3GM

No. 767TE380 (TDS3TMT) Telecommunications Mask..... **$995.00**

Optional Input Adapter
No. 767TE124 (AFTDS) **$525.00**
No. 767TE125 (AMT75) **$350.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

TDS 200 Series Digital Real-Time Oscilloscopes

The TDS210 and TDS220 are designed for people who need the low cost and performance of analog oscilloscopes but want the capabilities made possible by digital technology. Both models, (60 MHz and 100 MHz), have cursors with readout, two reference waveforms, five setup memories, five automatic measurements, autoset which assures fast and hands free operation. The reliable backlit LCD display allows for a small, lightweight footprint that will fit just about anywhere and can be easily moved from benchtop to benchtop.

TDS224 - 100MHz

Just The Facts			
Model	**TDS 210**	**TDS 220**	**TDS224**
Techni-Tool No.	**767TE210**	**767TE220**	**767TE224**
Bandwidth	60 MHz	100 MHz	100MHz
Channels	2 + External Trigger	2 + External Trigger	4 Identical
Rate/Channel	1GS/s on each channel	1GS/s on each channel	1GS/s on each channel
Vertical Sensitivity	10 mV to 5 V/div at full B/W 2 mV to 5 mV/div at 20 MHz	10 mV to 5 V/div at full B/W 2 mV to 5 mV/div at 20 MHz	10 mV to 5 V/div at full B/W 2 mV to 5 mV/div at 20 MHz
DC Gain Accuracy	± 3%	± 3%	± 3%
Vertical Resolution	8 bits	8 bits	8 bits
Time Base	Main & Delayed	Main & Delayed	Main & Window
Setups	5 front panel	5 front panel	5 Front Window
Time/Base Range	5 ns to 5 s/div	5 ns to 5 s/div	5 ns to 5 s/div
Record Length	2500 points/channel	2500 points/channel	2500 points/channel
Horiz. Accuracy	±0.01%	±0.01%	±0.01%
Warranty	3 Years	3 Years	3 Years
PRICE	**$1195.00**	**$1795.00**	**$2395.00**

LEASING AVAILABLE!

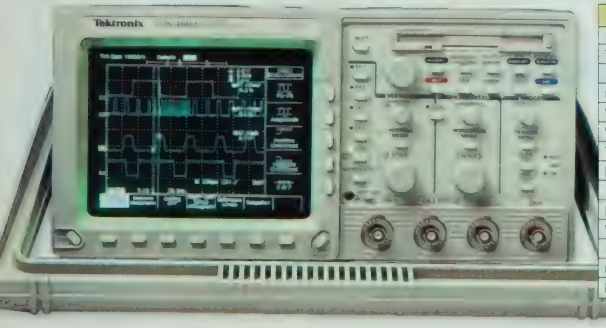
Weighs Only 3-1/4 lbs!

TDS210 - 60MHz

Optional Communication Modules		
Model	**TDS 2CM**	**TDS 2MM**
Techni-Tool No.	**767TE204**	**767TE028**
PRICE	**$265.00**	**$495.00**

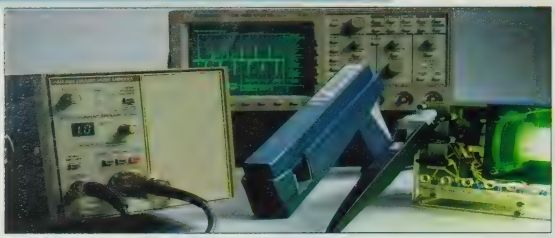
TDS-400A Digital Oscilloscopes

Whether you are in automotive design, power equipment, mechanical analysis or bioscience research, the combination of high-fidelity acquisition, multiprocessor efficiency, dependable triggering and intuitive operation make this TDS Personal Lab Scope Series the platform to choose to increase your productivity. Start with the TDS 430A (Not shown). This is a low-cost 400 MHz, two-channel precision oscilloscope with versatile triggering and more. The TDS 420A and TDS 460A are four-channel, 200MHz and 400MHz high-performance oscilloscopes with 100MS/s sampling rates. The TDS 400A series offers laboratory performance with overdrive recovery, flat response, calibrated DC offset, HiRes mode, Roll Mode, and more... with 1m extended Record Lengths; 120K extended memory optional. **Additional features:** Special signal conditioning; Acquisition modes; Signal processing and analysis; documentation and floppy drive. Each TDS 400A has a standard 30K memory, 120K record length, cover and pouch, continuous interface, RS232, advanced math & FFT-analysis capabilities. ***Three-Year Manufacturer's Warranty. Call for Additional Options.***



JUST THE FACTS			
Model	**TDS 430A-XL**	**TDS 420A-XL**	**TDS 460A-XL**
Techni-Tool No.	**767TE900**	**767TE902**	**767TE903**
Bandwidth	400MHz	200MHz	400MHz
Channels	2	4	4
Vertical Sensitivity	1 mV-10 V	1 mV-10 V	1 mV-10 V
Vertical Accuracy	+/-1.5%	+/-1.5%	+/-1.5%
Timebase Accuracy	0.005%≥1ms	0.005%≥1ms	0.005%≥1ms
Max Sample Rate	100MS/s/chan	100MS/s/chan	100MS/s/chan
Record Length	120K	120K	120K
Floppy Drive	Standard	Standard	Standard
Video Trigger	Standard	Standard	Standard
P6138 Passive Probes	2-10X	4-10X	4-10X
GPIB Programmability	Yes	Yes	Yes
PRICE	**$6765.00**	**$8615.00**	**$9875.00**

GSA Advantage!



AC/DC Measurement System

The AM 503S Current Measurement system is the most versatile current measurement solution available. The spilt core probes incorporate both a transformer for AC and a Hall Effect device for DC measurements to provide broadband current measurements from DC to 50 MHz, and up to 700A, depending on the probe used. The system includes the AM503B Amplifier, TM502A Power Module and A6302 Probe: DC to 50 MHz; 20 A Continues/50 A Peak; Clips onto Conductors up to 0.15" dia.

No. 767AC503 (AM503S) System..... **$3550.00**

LEASING AVAILABLE!

High-Performance Current Probes

100 MHz/20A AC/DC Current Probe
No. 767TE312 (A6312)..... **$1095.00**

50 MHz/20A AC/DC Current Probe
No. 767TE302 (A6302)..... **$959.00**

17 MHz/8 meter AC/DC Current Probe
No. 767TE632 (A6302XL) **$1495.00**

15 MHz/100A AC/DC Current Probe
No. 767TE303 (A6303) **$1950.00**

10 MHz/8 meter AC/DC Current Probe
No. 767TE633 (A6303XL).. **$2395.00**

2 MHz/8 meter AC/DC Current Probe
No. 767TE034 (A6304XL).. **$2495.00**

Frequency Counter

Tektronix

No matter what your application, Tektronix frequency counters make it easy to debug experimental circuits; repair consumer, telecom, and medical equipment; and control manufacturer test and quality assurance. **Features include:** Frequency Range: 1-1.3 GHz; Stability (+ or -): 1 ppm; Sensitivity (RMS): 5-35 mV.

No. 767ME022 (CMC251) **$620.00**

Power Supplies

Tektronix power supplies are safe, versatile instruments for a variety of environments. Full-featured options span instant-recall memory, programmability, and multiple outputs.

CPS250 Triple-Output

Fixed 5V/2A supply with two variable 0-20V/0.5A supplies.

No. 767ME024..... **$495.00**

PS280 Triple-Output

Fixed 5V/3A supply with two variable 0-30V/2A supplies.

No. 767ME062..... **$725.00**

Probes

P6021AC Current Probe

This probe provides wide-band performance with excellent low-frequency characteristics. Bandwidth is 120 Hz to 60 MHz. The passive termination is switchable from 2mA/mV to 10mA/mV. 15A peak for 1 MΩ inputs, AC only. A 5' current probe with termination, it includes: 5"(130mm) ground lead; 3" (75mm) Ground Lead; two miniature alligator clips and instruction manual.

No. 767AC021 (P6021) **$780.00**

YT5100/YT5600 Switchable 1X/10X Passive Probes

These passive voltage probes permit selection of 1X or 10X attenuation, using a switch located on the probe. Both probes compatible with general purpose oscilloscopes (100 MHz or lower) having input capacitance between 20 and 40 pF. **Includes:** Hook tip, 6" ground lead, adjustment tool, manual.

No. 767TE060 DC to 60 MHz **$59.00**

ADA-400A Series Differential Preamplifier

The ADA400A Differential Preamplifier allows direct oscilloscope measurements of very low amplitude (10V/div), low noise (100,000:1) and differential measurement capability. This is your high-quality measurement solution for medical and biophysical researchers analyzing electrophysical phenomena.

No. 767AC400 (ADA400A) **$1095.00**

AC Current Probes

Meet your Current Measurement requirements. For signals between 10A and 100A, choose this probe that can be used with all DMM's.

For THS700 Series TekMeter® TekWaveMeter® DMM

No. 767AC621 (A621) Frequency Ranges:5Hz to 50KHz; Max. Input Current: 2000A <Peak>; Output: 1 mV/A; 10 mV/A; 100 mV/A. **$450.00**

No. 767AC622 (A622) Frequency Ranges: DC to 100KHz; Max. Input Current: 100A <Peak>; Output: 10 mV/A; 100 mV/A..... **$470.00**

P5200 High-Voltage Differential Probes

The P5200-series differential probes make the TDS 400A-series highly accurate tools to safely make differential floating measurements up to 5600V. Includes Calibration Certificate.

1300V High Voltage Probe; 1 kV, 25 MHz
No. 767AC203 (P5200) **$479.00**

1300V High Voltage Probe; 1 kV, 100 MHz
No. 767TE208 (P5205) **$995.00**

5600V High Voltage Probe
No. 767TE521 (P5210)..... **$1995.00**

High Voltage Probes – TDS Series

P5100–High Voltage Probes

This is your low-capacitance, high voltage (2.5 kV) probe designed for higher frequency applications. The probe can be compensated to match plug-ins and oscilloscopes with nominal input capacitances of 7 to 30 pF. A variety of screw-on accessories provide easy connection to the device under test. **Features include:** DC to 250 MHz; 2,5000 V DC + Peak AC; 100x with readout; *IEC Certified.*

No. 767AC100 (P1500).... **$229.00**

P6015A–High Voltage Probes

Heavy-duty, high performance of voltages over 2.5 kV. Measure DC voltages up to 20 kV and pulses up to 40 kV, 100 ms Pulse Width. **Features include:** Silicone Dielectric; Optional 1000x Coding; Wide compensation range (7 to 49 pF); Heavy Duty Ground Lead and Clip.

No. 767AC015 (P6015A)..... **$1195.00**

Documentation Software

WaveStar™ Documentation

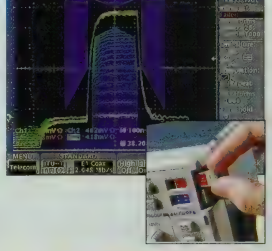
WaveStar™ is a waveform and data capture documentation software package that works with Microsoft® Windows™ application programs and allows digital scope users to quickly create an electronic lab notebook within a personal computer. *WaveStar* includes: Waveform measurements table: Harmonic Analysis; Power Waveform; Reads TDS disks; Drivers for new scopes; On-line help and more. Supports all Tektronix TDS-Series Oscilloscopes, THS-700 series TekScopes and other Tektronix DSOs. Comes with 30-day, "break-the-seal" license agreement. Your current *DocuWave* can be upgraded to *WaveStar*. Requires: IBM PC, 486 or better; 4 M RAM; Minimum 5M hard disk space; 3.5" high-density disk drive; Graphics adapter capable of VGA resolution, or greater; Windows 3.1 or later in 386 Enhanced Mode; National Instruments GPIB interface card V C.12 or higher for GPIB operation; Serial COM port for RS-232 operation; GPIB and or RS-232 cable.

No. 767TE120 (WSTRM) For meters w/PC interface .. **$159.00**

No. 767TE004 (WSTROU) Up Grade For WSTR31 **$99.00**

Supports: 2200 Series: 2400 Series: THS 710, 720; TDS 300, 400, 500, 600, 700, 800, 11401/02/03.

No. 767TE715 (WSTPO) For Oscilloscopes V. 2.2 - Windows 95/NT..... **$319.00**



TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

GSA Advantage!

TekRanger™ 2 TFS3031 Mini-OTDR

The new TekRanger 2 TFS3031 offers enhanced IntelliTrace™ technology, improved dead zones, faster real-time in zoom mode and improved reflectance measurements. And, we've made ordering even easier. Tektronix now offers two pre-configured packages targeted at specific applications. The location, reflectance and loss every splice in a system appears quickly and clearly on the large 7" display screen. The TekRanger is the only mini-OTDR that can report a splice 30m away while also finding splices more than 100 km away at the push of a button. **(USA)**

Installer Configuration - Option AX
Includes: 850/1300nm Multimode Optical Module; 1310/1550nm Singlemode Optical Module; Disk Drive; FMTAP Analysis PC Software and Hard Case.
No. 767TE309 (TFS3031-AX) **$21915.00**

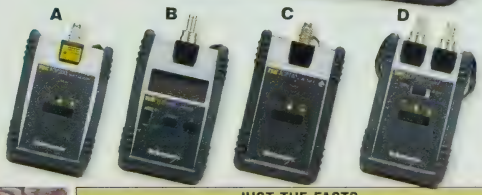
LEASING AVAILABLE!

LAN Configuration -Option AX
Includes: 850/1330nm Multimode Optical Module; Disk Drive; FMTAP Analysis PC Software and Hard Case.
No. 767TE308 (TFS3031-AN)..... **$15670.00**

Fiber Optic Tools

This line of handheld tools is compact, rugged and extremely reliable for installing and maintaining fiber optic networks. Products include both LED and laser sources, an optical power meter and a visual fault finder. The complete family offers great performance that can fit in a shirt pocket. All come with ST PC adapter option 34-other adapters available.

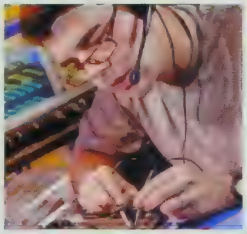
A. No. 767TE300 (TOP300) Visual Fault Finder **$1445.00**
B. No. 767TE201 (TOP200) Optical Power Meter **$695.00**
C. No. 767TE140 (TOP140) Laser Source (1310nm) **$1005.00**
D. No. 767TE130 (TOP130) Dual LED Source (850/1330nm)..... **$850.00**
No. 767TE160 (TOP160) Dual LED Laser Source (1310nm/1550nm) **$2895.00**



VocalLink™ Voice Control Software

New!

Higher performance demands of today's circuits have created ICs with dense packaging and extremely fine pitch parts. Probing these minute pins requires precise placement and the use of both hands, making it physically challenging to maintain probe contact while operating the oscilloscope. VocalLink software frees your visual attention to focus on making solid probe contact with your test signals to ensure accurate, repeatable measurements. VocalLink software simplifies operation, allowing users to reliably perform complex measurement routines with a single voice command in their native language. Choose from multiple languages for both on-screen operating menus and voice recognition. Build complex macros - including program branching and results reporting - that are accessed by a single, simple command. Minimum PC system requirements: Windows 95/98/NT4.0/2000 O/S.: Pentium 166MHz (233MHz recommended); 32 MB RAM (64 MB RAM recommended); 20 MB Hard Disk Space: Sound Card; CD ROM Drive; GPIB Controller Care and Cable or Tektronix AD007 GPIB to LAN Adapter. **(USA)**



JUST THE FACTS

VocalLink Commands: Functions	Basic	Pro
Voltage	3	3
Timebase	3	5
Position	3	3
Trigger	9	15
Channel	7	10
Measure	5	5
Acquire	2	7
Miscellaneous	6	8
Macros	-	5
No.	VCLNKP	VCLNKB
TT No.	**767TE100**	**767TE101**
PRICE	**$1195.00**	**$795.00**

Function Generators

LEASING AVAILABLE!

CFG 200 Series

Use these function generators to: experiment with amplifier/filter design; verify design of electronic components; test electronic products and components. The output for both is Sine, Square, Triangle, TTL Pulse. The Frequency Range for the CFG253 is 0.03 - 3 MHz; for the CFG280 is 0.01 - 11MHz.

No. 767ME016 (CFG253) **$420.00**
No. 767TE280 (CFG280) **$1030.00**

GSA Advantage!

AFG 300 Series

The AFG300 Series is an excellent Design & Test 16 MHz Function Generator with built-in arbitrary waveform capabilities. The instruments support standard waveforms including sine, square, triangle ramp, pulse, DC and noise. In addition, it has a frequency sweep function and three operating modes Continuous, Triggered and Burst. With a sampling rate of 16 MS/s, 12-bits vertical resolution and a non-volatile memory that holds four 16,384-point waveforms, the AFG300 Series are powerful tools for simulating complex waveforms. Waveshapes can be downloaded directly from a Tektronix DSO created with the included WaveWriterTM for Windows waveform editing software package, or entered via the front panel. **Specs:** Waveform: Arbitrary Length: 10 to 16, 384 points. Nonvolatile Memory: Four 16K Waveforms, Amplitude: 50mVp-p to 10Vp-p, Sample Rate: 16ms/s: Frequency: Sine/Square 1mHz to 16MHz, Triangle/Ramp: 1mHz to 100kHz; Sinewave: Harmonic Distortion: DC to 20 kHz 70dBc. 20kHz to 100kHz: -60dBcm100kHz to 1MHz: Frequency: 10Mhz. ***Three-Year Warranty.***

No. 767TE310 (AFG310) One Channel **$1895.00**
No. 767TE321 (AFG320) Two Channels **$2695.00**

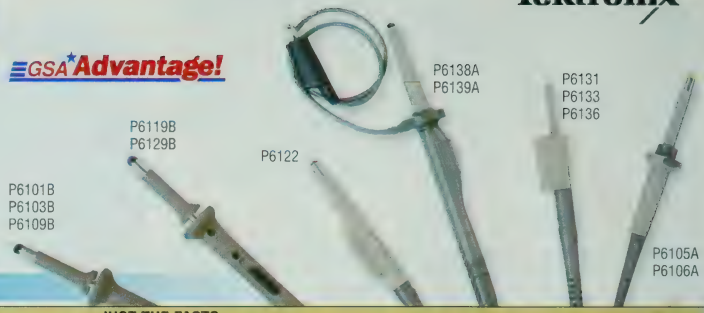
Tektronix

Tektronix Probes: The First Choice For Scopes Everywhere

Can you really risk using a bargain probe that can blind your scope? Of course not. Tektronix probes provide signal fidelity with performance matched to your specific scope. These probes work faster, with fewer errors and mistakes. You get optimal balance between frequency response & transient response, without compromising system performance.

Call your Techni-Tool Representative at 1-610-941-2400 to match the right probe to your system.

GSA* Advantage!

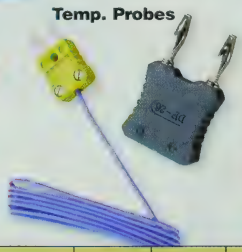


Active Probes

JUST THE FACTS										
Model	**P6101B**	**P6103B**	**P6105A**	**P6106A**	**P6109B**	**P6111B**	**P6114B**	**P6119B**	**P6122**	**P6129B**
TT No.	**767AC101**	**767AC103**	**767AC6105**	**767AC6106**	**767ME6109**	**767AC6111**	**767AC114**	**767AC6119**	**767AC6122**	**767AC6129**
Bandwidth	15MHz	60MHz	100MHz	250MHz	100MHz	200MHz	400MHz	10/100MHz	100MHz	10/100MHz
Attenuation	1X	10X	10X	10X	10X	10X	10X	1X/10X	10X	1X/10X
Comp Range	N/A	15-35pF	15-35pF	15-35pF	15-35pF	15-35pF	15-35pF	15-35pF	15-35pF	15-35pF
Readout	No	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes
Scope Comp	All Classics	TAS Classics	Tektronix Series	Tektronix TDS 340	400 Series	TDS 360 & Series	TDS 380 Series	TDS 340 Series	2200 Series	2200/TAS 640A
PRICE	**$90.00**	**$100.00**	**$239.00**	**$279.00**	**$120.00**	**$165.00**	**$229.00**	**$119.00**	**$170.00**	**$155.00**

Model	**P6245**	**P6133**	**P6246**	**P6137**	**P6138A**	**P6139A**	**P6201**	**P6202A**	**P6205**	**P6243**
TT No.	**767TE246**	**767AC6133**	**767TE247**	**767AC137**	**767AC6138**	**767AC139**	**767AC201**	**767AC202**	**767AC6205**	**767AC243**
Bandwidth	1.5GHz	150MHz	400MHz	400MHz	400MHz	500MHz	900MHz	500MHz	750MHz	1GHz
Attenuation	10X	10X		10X	10X	10X	1X/10X/100X	10X/100X	10X	10X
Comp. Range		10-25pF		12-18pF	8-12pF	8-12pF	–	–	–	–
Readout		No		Yes	Yes	Yes				
Scope Comp	TDS Series	2400 Series	TDS Series	2400 Series	TDS 400 Series	TDS Series	7000 Series	7000 Series	11000 & TDS Series	–
Input Res	1MΩ	–	±850mV	–	–	–	100kΩ/1MΩ/1MΩ	10MΩ	1MΩ	1MΩ
Typical Input C	<1 pF	–	<1 pF	–	–	–	3.0/1.5/1.5pF	2.0/2.0pF	2.0pF	<1.0pF
Max. V	40V (AC & DC)	–	±25V	–	–	–	±50/±100/±200V	±200V	±40V	±40V
Probe Power	–	–	1103	–	–	–	1101A	1101A	1103	1103
PRICE	**$1695.00**	**$239.00**	**$2495.00**	**$299.00**	**$249.00**	**$295.00**	**$2295.00**	**$1695.00**	**$725.00**	**$500.00**

Locate The Correct Accessory to Match Your Meter

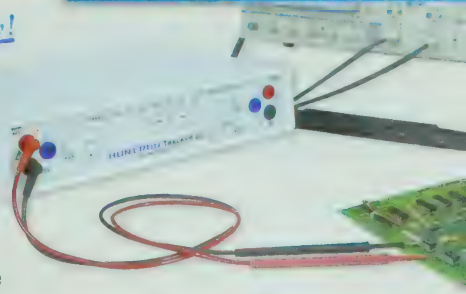


TT No.	Model	Accessories	PRICE	DMM100/200 Series	DMM900 Series	DTM900 Series	CM300/320 Series	THM420 Series	THM565 Series	THS700 Series
No. 767TE102	ATLDX1	Deluxe Lead Set w/Tip Accessories	$75.00	•	•		•	•	•	•
No. 767TE104	ATL01	Basic Lead Set	$14.00	•	•		•	•	•	•
No. 767TE106	ATL22	Plug-On Test Lead Tips	$9.00	•	•		•	•	•	•
No. 767TE107	ATL23	Plug-On Sharp IC Lead Tips	$14.00	•	•		•	•	•	•
No. 767TE108	ACL21	Plug-On Safety Alligator Tips	$15.00	•	•		•	•	•	•
No. 767TE109	ACL22	Plug-On Hook-Tip Clips	$24.00	•	•		•	•	•	•
No. 767TE110	ACL23	Plug-On Wire Clamp Clips	$23.00	•	•		•	•	•	•
No. 767TE111	ACL24	Plug-On Jaw Clips	$28.00	•	•		•	•	•	•
A. No. 767CA011	AC11	Small Nylon Soft Case	$35.00	•		•				
B. No. 767CA114	AC12	Large Nylon Soft Case	$39.00		•	•		•		
C. No. 767CA115	AC13	Long Nylon Soft Case	$32.00	•	•	•	•			
No. 767TE113 ADAPTER	ATK01	Thermocouple Bead Probe, Type K, -40°C to 204°C Adapter	$19.00		•					
No. 767TE112	ATP01	Temperature Bead Probe Set	$14.00		•	•				

Tracker 200

Test newer technology components such as CMOS and MOS circuits with the Tracker 200. It's built-in pulse generator lets you thoroughly troubleshoot gate-fired devices such as SCRs, TRIACs, and optocouplers. By energizing the gate, you can test a component in an active mode, and test components and boards without power. Ideal for catastrophic failures, giving you a picture of a component's overall health, including intermittent problems. Uses the X-Y inputs on most oscilloscopes. **Includes:** (1 pair.) µ probes, (1 pr.) test leads, (2) mini-clip leads, (2) 18" coaxial BNC cables. **Specs:** Frequencies: 50/60Hz; Pulse Generator: Level: 0V to 5V, DC Mode: +DC or -DC, Pulse Mode: + or - Pulse, or both, adjustable duty cycle; Line Voltage: 100VAC; Power: 15W max.
One-year Warranty. **(USA)**
No. 447TE200 ..... **$995.00**

New!



Tracker® 2500/2000

Troubleshoot low voltage logic circuitry without the possibility of exceeding manufacturers voltage specification. Its low voltage ranges makes it ideal for testing passive devices such as high value capacitors while still in-circuit. A variable dc voltage level form -5V to +5V allows the user to switch gate fires devices such SCRs and optical couplers so that they can be tested in the open and closed state and is ideal for the service engineer's bench. The 200mV range of the Tracker 2500 allows inductors to be analyzed without turning on the parallel solid state devices.

T/T No.	447ME2000	447TE2500
Model	**2000**	**2500**
Waveform	A,B, Alternate	Sine wave
Frequencies	50/60 Hz, 400 Hz, 2000 Hz	20Hz, 50/60 Hz, 200 Hz, 2 kHz
Functions Range Selection	Manual/Auto, H.R. Lockout	Manual or Auto
Alternation Range	0.5 Hz to 10 Hz	0.5 Hz to 5 Hz
DC Source		
Level	0V to 5V	0 to ±5VDC
DC Mode	±DC outputs	±DC outputs
Output Impedance		100Ω
Pulse Mode	±Pulse	
Line Frequency	47 to 400 Hz	47 to 63 Hz
Power	20 Watts max	20 Watts max
Warranty	1 Year	1 Year
Price	**$1895.00**	**$2495.00**

New!

LEASING AVAILABLE!

Tracker 4000

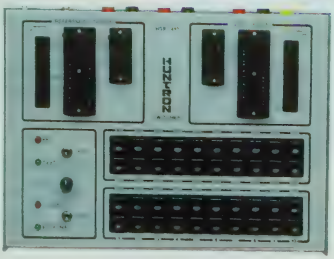
The Huntron Tracker 4000 provides state-of-the-art troubleshooting methodology using analog signature analysis techniques. The dual trace CRT display quickly compares known good component signatures with the device under test, thus detecting subtle problems such as IC leakage, intermittent faults, open capacitors etc. The Tracker 4000 can supply any combination of a possible 6000 selections of voltage, source resistance and test frequency. Up to 20 customized test groups can be stored internally with up to four ranges per group, and can test passive devices, surface mount, low voltage logic, CMOS, TTL, and mixed-signal technology boards. The Tracker works by applying a current-limited AC signal across two points of a component. The current flow causes a vertical deflection of the CRT trace, while the applied voltage causes a horizontal deflection. The Huntron Tracker 4000 comes complete with: µ Probes (1 pair), common test leads, power cord, manual. **Specs:** Test Frequency: 36 selections of frequency, 20Hz to 190Hz in 10Hz steps; Open Circuit Voltage: 24 selections of peak voltage, 200mV, 400mV, 600mV, 800mV, 1V to 20V in 1V steps; Source Resistance: 16 selections of resistance; Channels: 2, display modes a, B, Alt, A+B; Pulse Generator: level 0 to ±10V, width (pulse mode) 2% to 50% duty cycle, source resistance 100Ω, maximum current 10mA; Power Requirements: line voltage: 90VAC to 250VAC, frequency 47Hz to 63Hz, power 45W. ***One-Year Warranty.***
No. 447TE4000 ..... **$3995.00**

LEASING AVAILABLE!

Accelerate IC Troubleshooting!

Switcher 410

GSA Advantage!



Speed up testing of multi-pin chips. Work using the power off to the devices under test and push-button select. Connectors attach to devices with up to 40 pins and provide non-destructive testing. Attach to a *Tracker 1000 or 2000* to troubleshoot whole ICs at once. The *Switcher 410* comes complete with two 40-pin DIP clip cables, two 16-pin DIP clip cables, keyboard overlays, two reference wires, power/clock cable and instruction manual. **Specifications:** Power: 8-12 VDC @ 200mA (max); Dimensions: 7.5 L x 10"W x 2"D. Wt.: 2.25 lb. ***One-Year Limited Warranty.***
No. 447ME410 ..... **$795.00**

Huntron DSI 700

GSA Advantage!

A portable diagnostic tool, the HUNTRON DSI 700 is able to interface with any IBM-compatible portable computer. No matter the level or experience of the Technician, once the DSI captures and stores a board's signatures, that information is always there because it's saved in the computer's database— not the technician's head. The DSI 700 scans electronic components and digitizes the analog signatures of up to 64 pins at a time. In remote, or PC mode, the DSI 700 connects to a PC through a parallel port, and compares the suspect board component to known-good signatures stored in the database. No programming is necessary. The system notifies the technician of any pin signatures outside the user-selected tolerance range. **Includes:** Two 40 Pin DIP clip cables; Two 20 Pin DIP clip cables; Two 8, 16, 28, 20, 24, 28, and 40 Pin DIP clips, power/clock cable; Two dual banana leads, parallel cable and instruction manual. ***One-Year Limited Warranty.*** **(USA)**
No. 447ME700 ..... **$2995.00**

LEASING AVAILABLE!

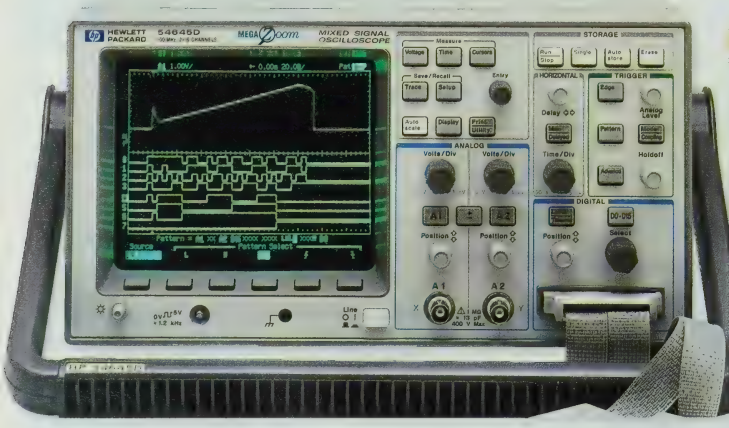
HEWLETT PACKARD

HP 34970A Low-Cost Data Acquisition/Switch Unit

Your HP 34970A is a high-performance, low-cost data acquisition and switching mainframe ideal for data logging, data acquisition and general purpose switching and control applications. It consists of a half-rack mainframe with an internal 6 1/2-digit (22 bit) digital multimeter. Three module slots are built into the rear of the unit to accept a combination of switch and control modules.

No. 374HP970 (HP 34970A) **$1290.00**

TT No.	Module Description	Type	Speed ch./sec.	Maximum Input Voltage	Current	Power	Offset Voltage	Bandwidth	Comments	PRICE
374HP901	HP34901A 20-ch. Multiplexer	2-wire armature (4-wire selectable)	60	300V	1A	50W	<3µV	10 MHz	2 current channels Built-in cold junction reference	$395.00
374HP902	HP34902A 16-ch. Multiplexer	2-wire reed (4-wire selectable)	250	300V	50 mA	2W	<6µV	10 MHz	Built-in cold junction reference	$395.00
374HP903	HP34903A 20-ch. Actuator/GP Switch	SPDT/form C	120	300V	1A	50W	<3µV	10 MHz	—	$295.00
374HP904	HP34904A 4 x 8 Matrix	2-wire armature	120	300V	1A	50W	<3µV	10 MHz	Full crosspoint	$395.00
374HP905	HP34905A Dual 1:4 RF Mux, 50	Common Low (unterminated)	60	42V	0.7A	20W	<6µV	2 GHz	1 GHz through provided BNC-to-SMB adapter cables	$495.00
374HP906	HP34906A Dual 1:4 RF Mux, 75	Common Low (unterminated)	60	42V	0.7A	20W	<6µV	2 GHz	1 GHz through provided BNC-to-SMB adapter cables	$495.00
374HP907	HP34907A Multifunction module	Two 8-bit digital I/O ports 26-bit Event Counter Two analog outputs	— — —	42V 42V +/-12V	400mA — 10mA	— — —	— — —	— 100kHz dc	Open Drain Gated; selectable input threshold16-bit, earth referenced	$295.00
374HP908	HP34908A 40-ch. single-ended Mux	1-wire armature (common low)	60	300V	1A	50W	<3µV	10 MHz	No 4-wire measurements Built-in cold junction reference	$395.00



JUST THE FACTS		
Model	54645D	54645A
TT No.	374HP646	374HP645
Bandwidth	100 MHz.	100 MHz.
Channels	2 scope+ 16 logic-synchronized	2
Max Sample Rate/Channel	200 MSa/s –	200 MSa/s –
Input Impedance	1 MΩ 13 pF	1 MΩ 13 pF
Range	1 mV/div to 5V/div	1mV/div to 5V/div
Max Input Peak Detect	400V (dc to peak ac) 5ns minimum	400V (dc to peak ac) 5ns minimum
Resolution	8 bits	8 bits
Logic Channels	16 (two 8-channel pods)	n/a
Memory Depth	2 M/channel	n/a
Input R&C	100 KΩ, 8 pF	n/a
Input Level	±40V max, 500 mVp-p min	n/a
Threshold Range	±6.0V in 50 mV increments	n/a
Warranty	3 Years	3 Years
PRICE	$4995.00	$3495.00

Test Mixed Analog and Digital Designs!

LEASING AVAILABLE!

HP 100 MHz. Mixed Signal Scope

The HP 54645A 100 MHz. two-channel scope gives you longer signal captures, sustained sampling and a display update rate of 3 million points/second. The HP 54645A pan-and-zoom feature makes it easy to scroll through captured data and display the whole waveform. It can easily zoom in to examine events of interest on the screen simultaneously. The HP 54645D 100 MHz. mixed signal oscilloscope combines the detailed signal analysis of a scope with the multichannel timing measurements of a logic analyzer, allowing you to capture and analyze the signals and relationships that matter most. HP MegaZoom solves the problems of sluggish response and complex operation commonly associated with deep memory. So, not only will you get a great two-channel scope, you'll have the analysis power of deep memory on all 18 channels. You can also correlate serial data sequences with variations in an analog signal or triggering on a mix of digital bus states and analog signal details.

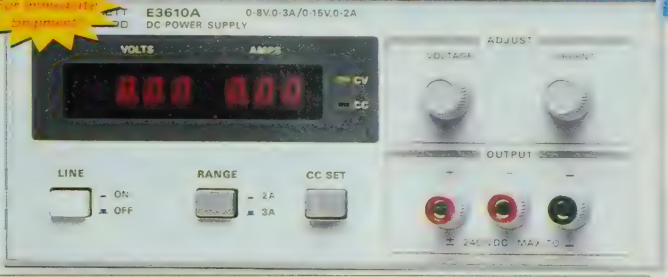
TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Power Supplies

The HP E3600-series gives you clean power with dependable regulation and fast transient response. Choose constant voltage (CV) mode or constant current (CC) mode, changing automatically based on load. In the HP E3610/11/12A, CV/CC mode lets you preset both current and voltage limits so you can be sure your circuits are getting the levels you think they are. The HP E3614/15/16/17A gives you adjustable overvoltage protection and remote sensing to measure voltage at the load and automatically compensate for voltage drops. Need multiple outputs? The HP E3620A dual-output supply delivers a pair of 25V (1A) outputs (the outputs are completely isolated and independent.). The triple-output HP E3630A offers ±20V (0.5A) outputs and a 6V (2.5A) output.

374HP361 (E3610A)

Available For Immediate Shipment!



JUST THE FACTS										
Model	E3610A	E3611A	E3612A	E3617A	E3620A	E3630A	E3631A	E3632A	HP E3633A	HP E3634A
TT No.	374HP361	374HP611	374HP612	374HP017	374HP620	374HP630	374HP631	374HP632	374TE633	374TE634
No. of Outputs	1	1	1	1	2	3	3	1	1	1
Output (max. V, current)	8V, 3A or 15V, 2A	20V 1.5A or 35V, 0.85A	60V, 0.5A or 120V, 0.25A	60V, 1A	25V, 1A or 25V, 1A	+6V 2.5A +20V, 0.5 A -20V, 0.5A	0 to +25V, 1A 0 to -25V, 1A 0 to 6V, 5A	0 to +15V, 7A 0 to +30V, 4A	8V, 20A or 20V, 10A	25V, 7A or 50V, 4A
Features	Dual range,10-turn pots, constant voltage (CV), constant current (CC) modes			Adj. over voltage protection	Dual outputs isolated, 10 turn pots, CV, CC	Tracking common outputs, CV, CL	Triple output DC supply, dual voltage & current meters, built-in RS232 port, CV, CL	Dual range, hi-output 120W, linear reg for low noise HP-IB and RS 232 interfaces	Single output, dual range programmable power supplies	
Load & Line Resolution	<0.01%+2mV	<0.01%+2mV	<0.01%+2mV	<0.01%+2mV	<0.01%+2mV	<0.01%+2mV	<0.01%+2mV	<0.01%+2mV		
Ripple & Noise Voltage	<200µVrms	<200µVrms	<200µVrms	<200µVrms	<350µVrms	<350µVrms	<350µVrms	<350µVrms	<350µVrms	<500µVrms
Transient Response	10mV	10mV	10mV	15mV	15mV	15mV	50µs	50µs		
Resolution V/C	10mV/10mA	100mV/10mA	100mV/1mA	10mV, 100mV	10mV, 100mV/1mA	10mV/ 10MA	1mV/1mA	1mV/0.5mA	1mV/1mA(<10A) 1mV/10mA (≥10A)	
Isolation	240VDC	240VDC	240VDC	240VDC	240VDC	240VDC	±240VDC	±240VDC	--	
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years
PRICE	$310.00	$310.00	$310.00	$525.00	$525.00	$525.00	$1095.00	$995.00	$1195.00	$1195.00

Counters

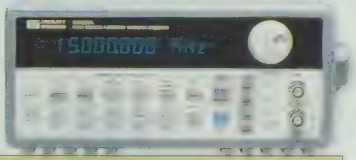
The HP 53100-series counters use real-time digital signal processing to analyze data while simultaneously taking new readings. Automated limit tests, instant recall of test setups one button access and simultaneously measure and track average, min/max and standard deviations.

JUST THE FACTS			
Model	HP53131A	HP53132A	HP53181A
TT No.	374HP131	374HP132	374HP181
Frequency Range	CH1 & 2: dc-225 MHz	CH1 & 2: dc-225 MHz.	CH1 dc-225 MHz
Frequency Resolution	10 digits/s	12 digits/s	10 digits/s
Measurement Speed	Up to 200 meas./s	Up to 200 meas./s	Up to 200 meas./s
Time Interval Resolution	500ps	150ps	N/A
Ext. Timebase input	1, 5, 10 MHz.	10 MHz	1, 5, 10 MHz
Trigger	CH 1 & 2	CH 1 & 2	CH 1
Warranty	3 Years	3 Years	3 Years
PRICE	$1795.00	$2795.00	$1575.00

Function Generators

LEASING AVAILABLE!

Offers: 10 standard waveforms, with sine and square to 15 Mhz, ability to build arbitrary waveforms with 40 MSa/a speed and storage for four 16,000-point waveforms: clean signals-THD less than 0.04% and flatness as low as ±0.1 dB Warranty 3 Years

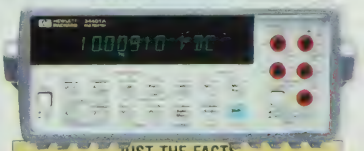


JUST THE FACTS	
Model	33120A
TT No.	374HP120
Waveform	
Arbitrary Length	8 to 16,000 points
Nonvolatile Memory	4 (each 8 to 16,000 pts)
Amplitude	12 Bits
Sample Rate	40 MS a s
Frequency Sine/Square Triangle/Ramp	100µHz-15MHz 100µHz-100kHz
Sinewave Harmonic Distortion	dc to 20 kHz-70 dBc; 20 kHz to 100 kHz-60 dBc 100 kHz to 1 MHz-45 dBc; 1 MHz to 15 MHz-35 dBc
Lock Range	10 Mhz ±50 Hz
Frequency	10 Mhz
PRICE	$1795.00

6-1/2-digit Accuracy at a 5-1/2-digit Price!

HP 34401A Digital Multimeter

The HP 34401A boosts your productivity by combining time-saving features with an easy-access user interface. One or two button presses give you a wide array of functions, from dc volts to frequency to dB and dBm. Advanced tests include limit checks that can drive a TTL output, min/max/avg readouts and dc voltage ratios. You'll save time putting the HP 34401A into a system, too. Standard commands for Programmable Instruments (SCPI) as well as HP 3478A & Fluke 8840/8842A command languages are built in.



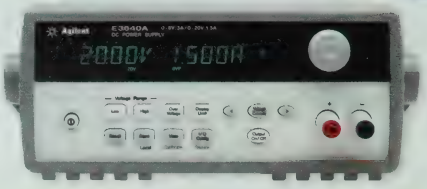
JUST THE FACTS	
Model	HP 34401A
TT No.	374HP401
Meter Type	True RMS
Basic DCV Accuracy	±.0.005 (10 MΩ)
DC Voltage Ranges	100 mV-1000V
DC Current Ranges	10 mA to 3A
AC Voltage Ranges	100 mV to 750V
AC Current Ranges	1A to 3A
Resistance Ranges	100Ω-100MΩ
Max. Input	1,000 VDC, 750 RMS AC
Frequency Ranges	3 Hz. To 300 KHz
Display Range	6-1/2 digits
Continuity	1,000Ω range
Diode Test	1V range, 1mA test current
Other Features	Auto reading hold, 512 reading storage, dcV-dcV ratio
Warranty	3 Years
PRICE	$995.00

HEWLETT PACKARD

Programmable DC Power Supplies

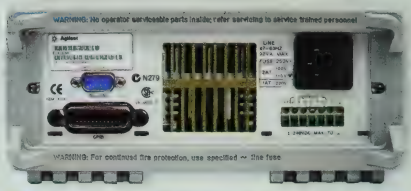
With 30 to 100W of output power, the programmable DC power supplies provide great performance at a great price. All ten models deliver clean power, dependable regulation, fast transient response and built-in GPIB and RS-232 interfaces. They are designed to meet the needs of R&D design verification, production testing, QA verifications and other demanding applications. **Features:** Single and Dual Output; Dual Output Ranges; Front and Rear Output Terminals; Over-voltage Protection; Remote Sense; GPIB and RS-232 Standard.

374HP364



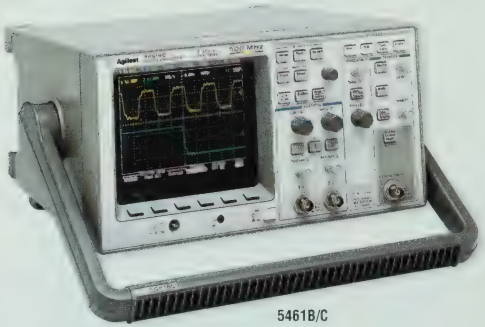
New!

E3646A



JUST THE FACTS						
Model	**E3640A**	**E3641A**	**E3642A**	**E3643A**	**E3644A**	**E3645A**
TT. No.	**374HP364**	**374HP365**	**374HP366**	**374HP367**	**374HP368**	**374HP369**
Outputs	1	1	1	1	1	1
Outputs Max V/I	8V/3A or 20V/1.5A	35V/0.8A or 60V/0.5A	8V/5A or 20V/2.5A	35V/1.4A or 60V/0.8A	8V/8A or 20V/4A	35V/2.2A or 60V/1.3A
Power Rating	30W	30W	50W	50W	80W	80W
Ripple & Noise	<5 mV pp/ 0.5mV rms	<8 mV pp/ 1 mV rms	<5 mV pp/ 0.5 mV rms	<8 mV pp/ 1 mV rms	<5 mV pp/ 0.5 mV rms	<8 mV pp/ 1 mV rms
Mode	CV/CI	CV/CI	CV/CI	CV/CI	CV/CI	CV/CI
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years
PRICE	**$595.00**	**$595.00**	**$695.00**	**$695.00**	**$845.00**	**$845.00**

JUST THE FACTS				
Model	E3646A	E3647A	E3648A	E3649A
TT No.	**374HP370**	**374HP371**	**374HP372**	**374HP373**
Outputs	2	2	2	2
Outputs Max V/I	8V/3A or 20V/1.5A	35V/0.8A or 60V/0.5A	8V/5A or 20V/2.5A	35V/1.4A or 60V/0.8A
Power Rating	60W	60W	100W	100W
Ripple & Noise	<5 mV pp/ 0.5 mV rms	<8 mV pp/ 1 mV rms	<5 mV pp/ 0.5mV rms	<8 mV pp/ 1 mV rms
Mode	CV/CI	CV/CI	CV/CI	CV/CI
Warranty	3 Years	3 Years	3 Years	3 Years
PRICE	**$795.00**	**$795.00**	**$1095.00**	**$1095.00**



5461B/C

54600 Series Oscilloscopes

If you work with both analog and digital components then this oscilloscope series can help you easily see more of what's going on in your designs. The unique 2 + 16-channel mixed signal oscilloscope (MSO) models and the traditional 2 and 4 channel models are optimized with just the capabilities you need for verifying and debugging designs that include A/Ds, D/As, DSPs and embedded 8-or 16-bit micro-controllers. These scope give you the tools you need to solve your mixed analog and digital engineering challenges more easily.

54622D

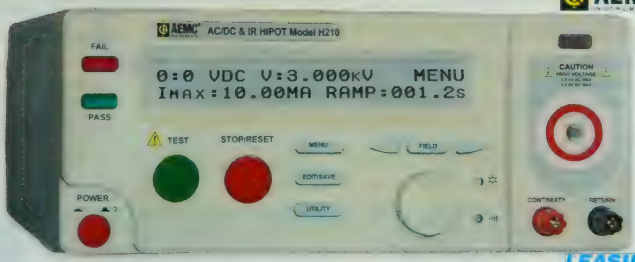
54600 Series Scopes

Designed with the bandwidth to handle demanding applications, plus troubleshoot and debug. Unlike other scopes no matter how slowly you sweep you can still detect glitches as narrow as 1 ns when utilizing peak detect.

JUST THE FACTS			
Model	**54610B**	**54615B**	**54616B/C**
TT No.	**374HP377**	**374HP378**	**374HP379**
Channels	2	2	2
Sample Rate, Real Time	20MSa/s	1 GSa/s	2GSa/s
Bandwidth	500 MHz	500 MHz	500 MHz
Record Length	4k	5k	5k
Glitch Capture	50 ns	1 ns	1ns
Vertical Sensitivity	2 mV/Div to 5 V/div (±2.0%)		
Input Res/Capacitance	1 MΩ±1% /~9 pf or 50Ω selectable		
Time Base Range	1 ns / div to 5 s/div		
Modes	Main, Delayed & XY		
Trigger Modes	Edge/Video		
Warranty	3 Years	3 Years	3 Years
PRICE	**$4995.00**	**$5695.00**	**$7995.00**

JUST THE FACTS			
Model	**54622A**	**54622D**	**54624A**
TT No.	**374HP374**	**374HP375**	**374HP376**
Channels	2	2+16Logic	4
Sample Rate, Real Time	200 MSa/s	200 MSa/s	200MSa/s
Bandwidth	100 MHz	100 MHz	100 MHz
Record Length	2M	2M	2M
Glitch Capture	5 ns	5 ns	5 ns
Veritical Sensitivity	1 mV/Div to 5 V/div (2.0% full scale)		
Input Res/Capacitance	1 M((1% / (14pf		
Time Base Range	5 ns/div to 50 s/div		
Modes	Main, Delayed, Roll & XY		
Trigger Modes	Edge/Pattern/Pulse/TV/Sequence/I C/Duration		
Cursors/Measurement	X, Y, (X, (Y / 16 Automatic Measurements		
Waveform Math	1-2, 1*2, FFT, INT, DIFF		
Warranty	3 Years	3 Years	3 Years
PRICE	**$2995.00**	**$4495.00**	**$4495.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400



LEASING AVAILABLE!

Hipot Testers - Digital Electrical Safety Tester

Hipot Testers are bench top safety testers designed for production and lab testing. Up to 6 different tests/programs can be stored and initiated at the touch of a button. Designed to permit testing to UL®, CSA® and IEC standards. **Features:** Continuity measurement @ 100mA; ARC current detection with programmable limits; Selectable AC test frequency 50Hz and 60Hz; Trip current setting without loads; Automatic testing - store up to 6 test programs; line and load regulation for linear output voltage; highly visible warning light indicator for HV output; pass and fail lights with adjustable buzzer; Program lock-out feature to prevent user error or program changes. **(USA)**

JUST THE FACTS				
Model	H215	H210	H115	H110
TT No.	**115TE215**	**115TE216**	**115TE217**	**115TE218**
AC Hipot - 5kV	X	X	X	X
DC Hipot - 6kV	X	X		
Continuity	X	X	X	X
Arc Detection	X	X	X	X
Insulation Resistance (IR)	X		X	
PRICE	**$1895.00**	**$1595.00**	**$1495.00**	**$1195.00**

Power Quality Logger

This single phase Power Quality Logger is designed to measure and log from a complete suite of electrical and power quality parameters. Designed for commercial, industrial and residential applications, and can be plugged into a standard 120V AC receptacle. The main advantage of the Power Quality Logger is its ability to perform a wide variety of recording tasks with high resolution and accuracy and easy, intuitive setup from a computer. Records and stores selected parameters in its memory. Along with standard electrical parameters (V, A, W, Var, PF) it also stores the Power Quality of the input waveforms (Harmonics, THD, Surge Sag, K-Factor). **Specs:** Voltage: Range: 0 to 140V; Resolution: 0.1V; Accuracy: ±(0.3% of Reading + 0.3V); Current: Range: 0 to 15A; Resolution: 0.01A; Accuracy: ±(0.5% of Reading + 0.03A); Frequency: Range: 45 to 65Hz; Resolution: 0.01Hz; Accuracy:0.1Hz. **(USA)**

No. 115TE219 ..... **$695.00**
No. 115TE220 ..... **$695.00**

SENCORE

LEASING AVAILABLE!

LC103 "ReZolver"™ In-Circuit Capacitor/Inductor Analyzer

Now, you can test the component in-circuit without fear of damage or dropping the tiny components on the bench. Plus, the LC103 allows you to test the larger SCRs, triacs, flybacks, and other transformers with the patented "Ringer" - catching even single shorted turns. The LC103 "ReZolver"™ dramatically reduces the use of your soldering iron by removing only the bad components. The LC103's quick, one-button, in-circuit test catches defective components that other testers miss. The LC103 also provides the industry standard tests made popular by other Sencore Z-Meters. You get complete capacitor tests that catch all 4 failure modes, and complete coil tests for value and shorted turns. The LC103 also does all the interpreting of test results for you by comparing the results to EIA standards and displaying "GOOD" or BAD". **Specs:** Power: 105-130V AC, 60Hz; Auto-off: Removes power during battery operation if unit sits idle longer than five minutes; Battery Life: two hours of typical operation. **(USA)**

No. 702TE103 ..... **$2495.00**

CP290 "ColorPro" Hand-Held Analyzer

This portable color analyzer allows you to confidently measure white balance on all CRTs. Simple to use, menu-driven features with total control at your fingertips. Sync-locked measurements, no external sync needed. Industrial standard measurement units and display modes. Fast accurate measurements over a wide range of luminance. Reduces strain in your eyes with a bright easy-to-read LED screen. **Specs:** Display modes Yxy, Yu'v', XYZ, ΔRGB, correlated color temperature in Kelvins; Accuracy: Y: ± 4% ±1 digit, xy: ±0.002; Repeatability Y: ±0.3% 1 digit, xy: ±1.0% ±1digit. Luminance Range: 0.05 to 150fl. **(USA)**

No. 702TE290 ..... **$2995.00**

VG91 Universal Video Generator

This portable and easy-to-use generator is designed to performance test and isolate defects in any NTSC video system. Variable level RF and IF signals allow you to prove the operation of tuner and IF circuits in seconds. Provides both standard audio and MTS stereo signals for testing and troubleshooting both mono and MTS receivers. **Specs:** TV-RF generator: STD TV 2-69, STD cable 2-125, HRC Cable 1-125, ICC Cable 1-125; IF generator: video 45.75MHz ±10kHz, aural 41.25MHz, trap signals 47.25MHz, 41.25MHz; RF output: LO 5-50uV, MED 50-500uV, HI 500-5000uV. Audio frequencies: 300Hz, 1kHz, 3kHz, and 5kHz ±2Hz. **(USA)**

No.702TE091 ..... **$2695.00**

POMONA

Quantity Discounts Available– Call!

DMM Test Probe to Multi-Stacking Banana Plug Kit

Contains two each (black/red): Test Probes with silicone-insulated leads, Alligator Clips and Slide-on Extended Tips.

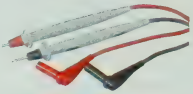
No. 458TE5325 ..... $20.00

Replacement Test Lead Sets

Each set contains two silicone insulated leads. *Fits: Fluke, HP, Tektronix, Amprobe and Wavetek.*

No. 458TE519 ..... $9.90

DMM Probe Lead Sets



Contains: a set of two 48" long silicone insulated leads, one black and one red. Features stainless steel tip, excellent for penetrating oxidation or conformal coating. *Fits most Fluke, Tektronix, H.P., Amprobe and Wavetek meters.*

No. 458TE898 ..... $10.00

Kelvin Clip Set

Kelvin Clip Cable assembly kit for accurate four wire measurements. The 24" cable features two Kelvin Clips to four color-coded Banana Plugs. A Minigator to Banana Plug lead is included for grounding or guarding. Rating: 45 V, 5 Amps Max.

No. 458TE940 ..... $132.00

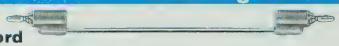
Test Lead Holders

Holder quickly mounts on any vertical surface to hold and organize test leads for easy selection. Fits wire and cable dia. up to 0.45" (11.4mm).

TT No.	Color	Max Dia.	#Slots	PRICE
458TE912	Black	.320	10	$5.85
458TE204	Blue	.450'	9	$5.85
458TE080	Orange	.210'	14	$5.85

Stacking Banana Plug Patch Cords

Miniature Stacking Banana Plug Patch Cord



20 AWG Wire. Rating 3000 VDC, 5A, +55°C Max. *(Other Lgths Avail.)*

No. 458AC480 Black 48" .... $5.40 No. 458AC482 Red 48" $5.40

Multi-Stacking Banana Plug to MiniPincer® Test Clip

20 AWG wire. Rating: 300VRMS, 5A, +55°C (+131°F) Max.

No. 458TE4210 Black, 24" .. $4.55 No. 458TE4212 Red, 24" $4.55
No. 458TE542 Black, 36" .. $4.55 No. 458TE421 Red, 36" $4.55

Multi-Stacking Banana Plug-to-MicroGrabber® Test Clip

20AWG wire. Rating: 150VRMS, 3A, +55°C (+131°F) Max.

No. 458TE053 Black, 24" ..... $5.35 No. 458TE505 Red, 24" $5.35

Multi-Stacking Banana Plug to MiniGrabber® Test Clip

20 AWG Retractable cord. Rating: 300VRMS 5A, +55°C (131°F) Max.

No. 458TE530 Black 48" ..... $9.90 No. 458TE532 Red 48" $9.90

Multi-Stacking Banana Plug to MiniGrabbers® Test Clip

20 AWG wire: 300VRMS, 5A; +55°C Max. *(Other Lengths and Colors Available.)*

No. 458TE556 Black, 12".... $3.40 No. 458TE560 Red, 12"..... $3.40
No. 458TE576 Black, 24".... $3.40 No. 458TE580 Red, 24"..... $3.40
No. 458TE596 Black, 36".... $3.40 No. 458TE600 Red, 36"..... $3.40
No. 458TE616 Black, 48".... $3.70 No. 458TE620 Red, 48"..... $3.70

Multi-Stacking Double Banana Plug-to-MiniGrabber® Test Clips

Rating: 300VRMS Max.; +50°C (+122°F) Max. Cable Type: RG-58C/U, .195" O.D.

No. 458TE786 18"..... $13.65
No. 458TE788 24"..... $13.65
No. 458TE790 36"..... $13.65
No. 458TE792 48"..... $14.70
No. 458TE794 60"..... $14.70

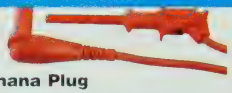
Multi-Stacking Banana Plug Patch Cord

Specs: 18 AWG wire.
Rating: 5000 VDC, 15A, +55°C (+131°F) Max.

No. 458TE212 Black, 12" .. $3.70 No. 458TE1308 Red, 12" $3.70
No. 458TE180 Black, 18" .. $3.70 No. 458TE182 Red, 18" $3.70
No. 458TE1324 Black, 24" .. $3.70 No. 458TE1326 Red, 24" $3.70
No. 458TE1334 Black, 36" .. $3.70 No. 458TE1336 Red, 36" $3.70
No. 458TE1354 Black, 48" .. $4.10 No. 458TE1356 Red, 48" $4.10
No. 458TE1364 Black, 60" .. $4.10 No. 458TE1366 Red, 60" $4.10
No. 458TE720 Black, 72" .. $4.10

MiniGrabber® Test Clips

MiniGrabber® Test Clip to Right Angle Sheathed Banana Plug



18 AWG Silicone insulated wire. Rating: 600V, 5A per IEC1010-2-031 CAT III P2.

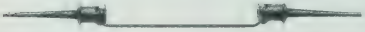
No. 458TE4448 Black .. $6.80
No. 458TE2444 Red..... $6.80

MiniGrabber® Test Clip Patch Cord

20 AWG Wire. Rating: 300V, 5 Amps, +102°C (+216°F) Max.

Black Red
No. 458TE416 12" $3.40 No. 458TE420 12" $3.40
No. 458TE436 18" $3.40 No. 458TE440 18" $3.40

MiniPincer® Test Clip Patch Cord



20 AWG Wire. Rating 300V, 5A, +80°C (+176°F) Max.

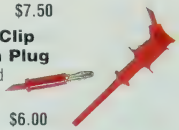
Black 24" Red 24"
No. 458TE4190 $4.55 No. 458TE4192 $4.55

MiniGrabber® Test Clip to Straight Sheathed Banana Plug

18 AWG Silicone insulated wire. Rating: 600V, 5 Amps per IEC1010-2-031 CAT III P2.

No. 458TE6245 Black $7.50
No. 458TE2454 Red..... $7.50

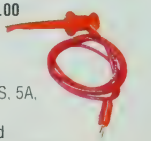
MiniGrabber® Test Clip to Straight Banana Plug



18 AWG Silicone insulated wire. Rating: 600V, Amps.

No. 458TE6251 Black .. $6.00
No. 458TE2511 Red..... $6.00

MiniGrabber® Test Clip-to-Miniature Stacking Banana Plug



20AWG wire. Rating: 300VRMS, 5A, 3A, +55°C (+131°F) Max.

Black Red
No. 458TE686 24" $4.10 No. 458TE690 24" $4.10
No. 458TE706 36" $4.10 No. 458TE710 36" $4.10

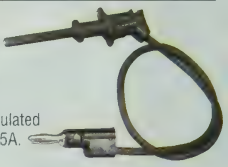
Micro Grabber® Test Clip Patch Cord

20 AWG wire: Rating 300VRMS, 3A, +102°C Max.

Black No.	Red No.	Size	PRICE
458TE1010	458TE1012	12'	$5.45
458TE1014	458TE1016	24'	$5.45
458TE1018	458TE1020	36'	$5.45
458TE1022	458TE1024	48'	$5.45

Patch Cord Kit – Ten pieces, 1/ea. of 10 colors.
No. 458TE5525 24" OAL $49.00

MiniGrabber® Test Clip to Multi-Stacking Banana Plug



18 AWG Silicone insulated wire. Rating: 600V, 5A.

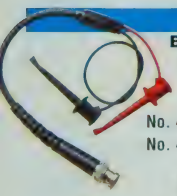
Black Red
No. 458TE2491 12" $4.00 No. 458TE2492 12" $4.00
No. 458TE2494 24" $4.00 No. 458TE2490 24" $4.00
No. 458TE6249 36" $4.00 No. 458TE624 36" $4.00

SMD Microtip Test Probe
Specially designed to probe SMD contacts, and is curved to aid in probing of hard-to-reach areas. Flexible stainless steel needle point tip is to help prevent damage to the SMD leads.
No. 458TE1840 Black **$9.65**
No. 458TE1842 Red **$9.65**

SMD Grabber® Test Clip Patch Cord
22AWG wire. Rating: 150VRMS, 0.5A, +102°C (+216°F). 12" OAL.
No. 458TE342 Black **$5.80**
No. 458TE122 Red **$5.80**

SMD Test Tweezer Stacking Banana Plugs Cable Assembly
No. 458TE1843 ..... **$20.65**

BNC Male



BNC Male w/Molded Strain Relief-to MiniGrabber® Test Clips
Rating: 300VRMS Max.; +50°C (+122°F) Max. Cable Type: RG-58C/U, .195" O.D.
No. 458TE187 24" **$14.50** **No. 458TE802** 48" **$14.50**
No. 458TE800 36" **$14.50** **No. 458TE804** 60" **$14.50**

BNC Male with Molded Strain Relief to Minipincer® Test Clips
Rating: 300VRMS Max., +50°C (+122°F) Max. Cable Type: RG58C/U, .195" O.D.
No. 458TE2318 18" **$15.75**
No. 458TE5423 24" **$15.75**
No. 458TE2336 36" **$15.75**

BNC Male to Alligator Test Clips
Rating: 150VRMS +50°C Cable: RG58C/U.
No. 458TE4531 36" ..... **$13.90** *(Other Lengths Available)*

BNC Male with Molded Strain Relief to Micrograbber® Test Clips
Rating: 150V (+122°F), Max. Cable type; RG 174/U, .100" O.D.
No. 458TE2477 24" ..... **$22.60** **No. 458TE7487** 48" **$23.75**
No. 458TE1206 36" **$22.60**

Quantity Discounts Available– Call!

BNC Male to Multi-Stacking Double Banana Plug
Cable: RG58C/U; Rating: 500 VRMS Max, 50°C Max (+122°FMAX.).
No. 458TE4530 36' **$13.35**

BNC Male to Multi-Stacking Banana Plug
Rating: 500 VAC, +55°C (+131°F) Max.
No. 458TE3957 7" **$11.45**

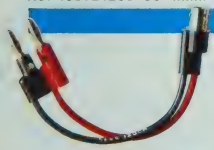
BNC Male to Micrograbber® Test Clips
Rating: 150V, +55°C (+131°F) Max.
No. 458TE5189 7' **$11.75**

BNC Male With Strain 50Ω Cable RG58C/U Cable
Ideal for test & measurement applications.
No. 458TE170 36" **$11.75**
No. 458TE174 60" **$14.65**
No. 458TE168 24" **$11.75**
No. 458TE2249 72" **$14.65**
No. 458TE491 120" **$17.60**
No. 458TE918 180" **$21.25**

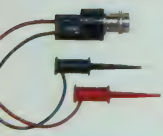
75Ω Cable RG59B/U Ideal for signals found in LANS, TV and video.
No. 458TE249 36" ..... **$12.50** **No. 458TE948** 48" **$14.70**

Low Noise For use with DC and low frequencies only (to 10 kHz).
No. 458TE964 36' **$15.75**

BNC Female



BNC Female to Multi-Stacking Banana Plugs
Rating: 500 VRMS +55°C Max.; 7" OAL.
No. 458TE612 ..... **$7.90**



BNC Female to SMD Grabber® Test Clips
Rating: 150VRMS, +55°C Max., 7" OAL.
No.458TE305 ..... **$11.20**

BNC Female to MiniGrabber® Test Clips
Rating: 300VRMS, +55°C Max., 7" OAL.
No. 458TE806 ..... **$8.20**

BNC Female to BNC Male
To extend BNC cables. Rating: 500 VRMS Max., +50°C (+122°F) Max. Cable Type: 50Ω RG58C/U, .195" O.D.
No. 458TE4524 36" **$15.55**

BNC Female to BNC Female Cable: RG58C/U.
Rating: 500 VRMS, +122°F max.
No. 458TE896 24" **$17.85**

BNC Female to .025 Square Pin Receptacles
7" OAL, Rating: 500 VAC, +50°C (+122°F) Max.
No. 458CN069 ..... **$8.35**

Test Clips

SMD Grabber® Test Clips
Pincer-type contact designed for testing SOJ, SOIC and PLCC surface mounted packages. OAL: 1.71". 0.090" max. wire dia. opening. Rating: 150VRMS, 5A, +102°C (+216°F).
No. 458TE525 Black ..... **$1.80** **No. 458TE5243** Red **$1.80**

MiniGrabber® Test Clips
2.54 OAL. Rating: 300VRMS. 5A. +102°C (+216°F) Max.
No. 458TE814 Black, .090".... **$1.35** **No. 458TE818** Red, .090" **$1.35**
No. 458TE942 Black, .144".... **$1.35** **No. 458TE946** Red, .144" ... **$1.35**

MicroGrabber® Test Clips
OAL: 1.71". Rating: 150VRMS, 3A, +102°C (+216°F) Max.
No. 458TE868 Black **$1.40**
No. 458TE872 Red..... **$1.40**

MiniGrabber® Test Clips with Banana Jack
Banana jack built into plunger is excellent for attaching the test clip to a banana plug patch cord. Features gold-plated beryllium copper contact for low contact resistance and durability.
No. 458TE7230 Black.... **$4.10** **No. 458TE4723** Red .. **$4.10**

Solderless Stackup Banana Plug
Rating: 5000VDC, 15A, +50°C (+122°F) Max.
No. 458TE058 Black **$1.25**
No. 458TE062 Red **$1.25**
No. 458TE076 White **$1.25**
No. 458TE066 Yellow .. **$1.25**

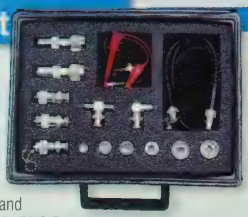
Solderless Stackup Banana Plug w/Safety Shield
Rating: 5000VDC, 15A, +50°C (+122°F) Max.
(other colors available)
No. 458TE104 Black **$1.25**
No. 458TE106 Brown **$1.25**
No. 458TE108 Red **$1.25**
No. 458TE112 Yellow **$1.25**
No. 458TE114 Green **$1.25**

Pomona Double Banana Plug
Rating: 5000 VDC,15 Amps. +50°C (+122°F). Standard banana plug .210 dia., Banana jack .166 dia.
No. 458TE1380 Black..... **$2.15**
No. 458TE1384 Red ... **$2.15**

BNC Female Double Stacking Banana Plug
Rating: 500 VRMS Max.: +50°C (+122°F) Max
No. 458TE050 ..... **$5.80**

BNC Male-to Stackable Binding Posts
Rating: 500 VRMS Max +50°C (+122°F) Max
No. 458TE056 .. **$10.75**

Coaxial Connectors Adapters & Probe Kits



Coaxial Lan Test Accessory Kit
Test or troubleshoot coaxial cable local area networks. **Kit contains:** two 50Ω BNC Cables. Male to Male and Male to Female: 2 BNC (m) to minigators: 3 BNC (m) termination plugs for 50, 75, and 100Ω impedance: 8 BNC and type N adapters, BNC (f-f), BNC T (f-m-f), BNC Rt angle (m-f), BNC (m-m), BNC (f)/Type N (m), BNC (m)/Type N (f), Type N (f-f), and Type N (m-m); and 2 Type N (m) termination plugs for 50 and 75Ω impedance.
No. 458TE201 ..... **$200.00**

Celludapt® Kit - 21 pc
This cellular equipment kit contains: O Adapters, one BNC (m & f); one Mini UHF (m & f), one N(m & f); one SMA (m & f); one SMA (m & f); one TNC (m & f); one FME, (m & f) Euro-Nipple (Technophone); one (Motorola) SMA Female; one NEC 9A, one OKI 700; one OKI 900; one Nokia P4000; one NEC P3/P4, P1110. All connectors are made of silver-plated, machined brass with a gold-plated, phosper bronze center contact anchored in a Teflon dielectric.
No. 771AC026 ..... **$165.00**

Maxi Universal Adapter Kit
Kit contains two each: BNC (m), BNC (f), TNC (m), TNC (f), SMA (m), SMA (f), "N" (m), "N" (f), UHF (m), UHF (f), Mini UHF (m), Mini UHF (f), "F" (m), "F" (f), RCA (m), RCA (f), six intermediate Couplers, one double Banana Plug, one double Banana Jack and one sampler.
No. 458TE5748 ..... **$230.00**

Coax Adapter Kit
You can make 72 adapters: Male-Male, Male-Female & Female-Female in any combination of BNC, TNC, SMA, N, UHF & MINI-UHF. The kit contains two male & two female of all eight connectors plus six universal interfaces. All are gold plated & teflon insulated.
No. 771CO4030 ..... **$179.25**

Adapters

Universal Adapter Kit
Contains two each: BNC (m), BNC (f), TNC (m), TNC (f), SMA (m), SMA (f), "N" (m), "N" (f), four intermediate Couplers, one double Banana Plug and one double Banana Jack.
No. 458TE698 ..... **$114.00**

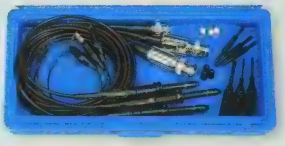
BNC Male Terminator Plug Kit - 5 pc
BNC Male terminator plugs for 50, 75, 93, 100, and 600Ω impedance.
No. 458TE5512 ..... **$46.00**

Oscilloscope Lead Kits

Quantity Discounts Available– Call!

100 MHz Heavy-Duty Probe Kit - 12 pc
This oscilloscope probe kit contains: three probes (1X, 10X and Switchable probe) sprung hooks, ground leads, trimmer tool and a 4" extender tip. The probes feature a snap-on, rotating ground lead and a heavy-duty fixed tip. In protective case.
No. 665TE391 .... **$93.95**

250 MHz Gold Probe-Master Kit - 25 pc
The gold-plated probe tips, sprung hook, ground lead, alligator clip and other critical interconnect points within the gold probe provide excellent contacts for probing low-level analog and high-speed digital data signals. Features: three probes (1X, 10X and Switchable probe), sprung hooks, 6" & 12" ground leads, replaceable tips, .025 wire wrap adapters, 4" long extender tip, pincer hook and many other accessories.
No. 665TE915 ..... **$152.50**

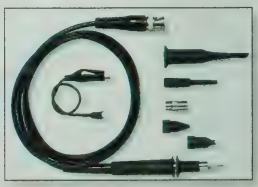


Heavy-Duty Oscilloscope Probes
Features a fully-enclosed, snap-on, rotating ground lead, and a "screw-in" replaceable tip. The switchable model allows for quick finger tip changes between probes. The probe body is made of high impact ABS. Soft, molded strain reliefs at all stress points insure long cable life. Contains three probes (1X, 10X and switchable ground) in a case, plus sprung hook, ground leads, spare tips and tip covers 200MHz.
No. 665TE411 ..... **$131.65**

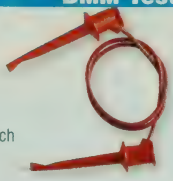
Techni-Probe Monolithic Oscilloscope Probe Kits - 7 pc
600VDC to 100MHz Probe.
Designed for professional engineers. Replaceable ground lead; Range includes switchable three position X1-Ref-X10; Sharp, heavy-duty tip. **(USA)**
No. 178TE510 ..... **$29.00**

Pomona Monolithic Oscilloscope Probe Set Selection Guide

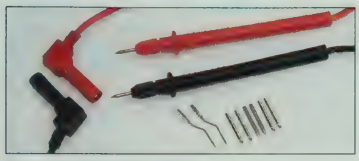
TT No.	Attenuation	Bandwidth (-3dB) MHz	Risetime	Resistance	Capacitance	Range	Readout Actuator	Ground Reference	PRICE
458TE4550	X1/X10	15/100	23.33/3.5	1/10	64/10.5	NA/10 60		X	$47.00
458TE6049	X10	150	2.33	10	10.5	10 30			$39.60
458TE6102	X10	250	1.4	10	10	10 30	X		$54.00



MiniGrabber® Test Clip Patch Cord Kit - 10 pc



Contains: 10 colored MiniGrabber® test clip patch cord and test clips with engineering grade thermoplastic bodies and caps. Features gold-plated beryllium copper. PVC-insulated 20AWG wire. Rating: 300VRMS, 5A, +102°C (+216°F) Max.
No. 458TE523 ..... **$30.15**



Replaceable Tip DMM Probe Kit

Contains two each (Black/ Red): replaceable tip test probe leads in silicone wire. **Includes:** dog-leg micro tips, .080" needle tips, shouldered micro tips and four standard brass tips.
No. 458TE5676 ..... **$26.85**

Basic Electronic DMM Test Lead Kit

Contains two each (black/red): Test Probes with silicone-insulated leads (Banana Plugs on meter end have no sleeve), Slide-on Extended Tips and Alligator Clips. Fits most multimeters and other equipment with banana jacks.
No. 458TE5672 ..... **$23.30**

Precision Electronic Probe Kit - 7 pc

New!

This probe kit is ideal for making measurements not easily accessible. Features a right angle sheathed banana plug for connection to a hand held digital Multimeter. Plug fits most Fluke, Tektronix, Hewlett-Packard, and Wavetek meters. **Specs:** Operating Temperature: 55° C; Operating Voltage: 1000 VRMS; 3A. **Kit Contains**: (1) Red Probe; (1) Black Probe; (5) sets of replacement tips. IEC 1010 compliant. Cat III. **(USA)**
No. 458AC341 (6341) **$38.00**

New!

Clever Kelps

Test probes designed for your needs. These flexible shank with turnable gripping claws are easy to use just push to seize, and push to release. Accepts banana plug or bare lead. 6" long. **(USA)**
No. 690TE022 Black **$7.25**
No. 690TE024 Red **$7.25**

Deluxe Multi-Use DMM Maxi Kit

Kit contains two each (black/red): modular electronic test probes with replaceable tip and five sets of replacement tips, flexible test leads with straight and right angle DMM plugs, test lead couplers, electronic test probe leads with retractable tip, Minigrabber® leads, Minipincer® leads, medium alligator clips, extra large alligator clips, and slide-on IC tips. Also included: two spade lug adapters, and pouch. Plugs fit most Fluke, Tektronix, Hewlett-Packard, and Wavetek meters.
No. 458TE5677 ..... **$95.00**

Deluxe Electrical DMM Test Lead Kit

Kit contains two each (black/red): modular electrical test probes with sharp stainless steel tip, flexible test leads with straight and right angle DMM plugs, Maxigrabber® test clips with hook tips, pincer tips, jaws, extra large alligator clips, and pouch. Plugs fit most Fluke, Tektronix, Hewlett-Packard, Wavetek, and Amprobe meters. Conforms to IEC1010-2-031, overvoltage category III, 1000V. Max. current 10 Amps.
No. 458TE904 ..... **$88.00**

Deluxe Electronic DMM Test Lead Kit

Kit contains two each (black/red): modular electronic test probes with .080" dia. tip, flexible test leads with straight and right angle DMM plugs, Maxigrabber® test clip with pincer tip, Minigrabber® Leads, Minipincer® Leads, medium alligator clips, slide-on extended tips (45 VAC) and slide-on IC tips (45 VAC), and pouch. Plugs fits most Fluke, Tektronix, Hewlett-Packard, and Wavetek meters. Conforms to IEC1010-2-031, Overvoltage Category III, 300V.
No. 458TE674 ..... **$85.00**

Datacom DMM Test Lead Kit

Includes: (1 pair) red/black 18AWG insulated 48" kink resistant leads, (4) phone tips, (2) needle tips, (2) spade lugs, (2) alligator clips and (2) banana plugs. 48" OAL.
No. 308TE010 ..... **$22.50**

Deluxe DMM Test Lead Kit - 23 pc

Includes: (2) leads, (2) probes, (2) spade lugs, (2) alligator clips, (2) extender probes, (2) minigator leads, (2) sprung nook leads, (2) .025" wire wrap leads, (2) pico hooks, (2) pincer hooks, (2) sprung hook probes and pouch. Fits most Fluke, Tektronix, H.P. and Wavetek meters.
Right angle retractable plug kit.
No. 665TE106 - 23 pc. **$75.00**
Straight retractable plug kit.
No. 665TE104 ..... **$75.00**

Universal DMM Probe Kit - 10 pc

Includes: (2) leads (BLK/RED); (2) probes; (2) alligator clips; (2) spade lugs; (2) sprung hook probes; 1000V CAT III.
No. 665TE200 ..... **$33.00**

Electronic DMM Test Lead Kit

Kit contains two each (black/red): modular electrical test probes with sharp stainless steel tip, flexible test leads with straight and right angle DMM plugs, extra large alligator clips, medium alligator clips (300V, 5A), slide-on extended tips (300V, 3A), insulated spade lugs, and pouch. Plugs fit most Fluke, Tektronix, Hewlett-Packard, Wavetek, and Amprobe meters. Conforms to IEC1010-2-031, overvoltage category III, 1000V. Max. current 10 Amps.
No. 458TE673 ..... **$44.00**

Softie Test Lead Kit - 11 pc

This soft flexible probe bends gently to reduce wear and breakage of the lead. This soft probe bends 90 degrees or more. **Includes:** 48" long, 18GA, test leads, and silicone.
No. 665TE069 ..... **$24.20**

High Voltage Oscilloscope Probe *New!*

This high voltage oscilloscope probe is a high operating voltage in a slim bodied probe. Bandwidth 100MHz, Voltage: 2kV. (France)
No. 220AC2459 ..... **$90.00**

Electrical DMM Kit - 10 pcs *New!*

For electrical testing applications this Electrical DMM Kit is designed with high density silicone lead wire, and special rigid alligator clip with high current capability. **Specs:** probe bodies w/02mm contact tip 1000V CAT III, 36A; insulated alligators 1000V CAT III, 20A; alligator style ridge clips, 1000V CAT III, 20A; leads, straight to right-angle sheath plugs, 1000V CAT III, 25A. Pouch included. ***One-Year Warranty.*** (France)
No. 220AC2621 ..... **$46.00**

Hand Held Meters DMM Kit - 10 pcs *New!*

Designed for hand held meters this kit includes silicone lead wire, and straight to right-angle 4mm sheathed plugs. **Specs:** probe bodies w/04mm contact tip, IC Cap 1000V CAT III, 36A; insulated alligator w/piercing point, 1000V CAT III, 20A; Probe Sprung Hooks, 500V CAT I, 5A; Spade Lug Adapter, 6mm 42V, 20A; Leads, Straight to Right-Angle Sheath Plugs, 1000V CAT III, 12A. Pouch included. ***One-Year Warranty.*** (France)
No. 220AC2696 ..... **$35.00**

Bench Meters DMM Kit - 10 pcs *New!*

Designed for Bench Meters this kit includes silicone lead wire, and straight to straight 4mm sheathed plugs. **Specs:** probe bodies w/04mm contact tip, IC Cap, 1000V CAT III, 36A; Insulated Alligator w/ Piercing Point, 1000V CAT III, 20A; Probe Sprung Hooks, 500V CAT I, 5A; Spade Lug Adapter, 6mm, 42V, 20A; Leads, Straight to Straight Sheath Plugs, 1000V CAT III, 12A. Pouch included. ***One-Year Warranty.*** (France)
No. 220AC2695 ..... **$35.00**

Deluxe SMD Probe Kit - 10 pcs *New!*

A complete test lead kit for high density SMD testing. The spring tip miniprobes and silicone test leads make a small, slim-line probe assemblies. The MiniFlex Clips and the smaller MicroClips contact high density IC leads. Includes: Silicone lead wire, and microclip and miniflex test clips. **Specs:** Spring-Tip Miniprobes w/IC Caps, 600V CAT II, 1A; Rotating Tip MiniFlex Clips w/0.031 Tip, 42V, 1A; MicroClips w/0.031 pins 42V, 0.5A; MicroLeads to 4mm Jacks, 42V, 0.5A; Leads, Straight to Right-Angle Sheath Plugs, 1000V CAT III, 12A. Pouch included. ***One-Year Warranty.*** (France)
No. 220AC2970 ..... **$65.00**

Deluxe Electronic DMM Kit - 11 pcs *New!*

Designed for Hi-Density Circuit Testing this kit includes silicone lead wire, black and red components, miniprobes have spring-loaded tips for easy SMD probing, and miniclips w/ rotating tips for accurate placement. **Specs:** Probe Bodies w/04mm Contact Tip, IC Cap, 1000V CAT III, 36A; Probe Sprung Hooks, 500V CAT I, 5A; Spring-Tip MiniProbes w/IC Caps, 600V CAT III, 1A; Rotating Tip Micro-Flex Pincers to 4mm jacks, 42V, 1A; Leads, Straight to Right-Angle Sheath Plugs, 1000V CAT III, 12A. Pouch included. ***One-Year Warranty.*** (France)
No. 220AC2622 ..... **$69.00**

MicroClip Test Clip Kit - 30 pcs *New!*

This kit includes: (12) MicroClip Test Clips (3 red, 3 yellow, 3 green, 3 blue); (12) 10cm MircoLeads (3 red, 3 yellow, 3 green, 3 blue); (6) holding rods. (France)
No. 220AC2848 ..... **$185.00**

Test Lab Starter Kit - 18 pcs *New!*

This starter accessory kit can handle most all your testing needs. **Includes:** 4mm Straight to Right-Angle Silicone Leads, 1.5m (60"); Probe Bodies w/Ø4mm contact tip; Fully insulated alligator clips; Sprung hooks; 100 MHz Oscilloscope Probe x1/x10/Ref; BNC male to male cable assembly, 1.2m; BNC female to IC Clip, breakout; Insulate BNC male to 4mm Jacks, Adapter; BNC female to 4mm Banana Plug, Adapter; BNC male to 4mm Binding Posts, Adapter. ***One-Year Warranty.*** (France)
No. 220AC3030 ..... **$99.00**

High-Performance SMD Test Kit - 26 pcs *New!*

This kit contains all the accessories needed to conduct high quality tests on the smallest SMD components. **Includes:** 4mm straight to right-angle silicone leads, 1.0m (40"); probe bodies w/spring-loaded contact tips; Miniflex clips to 4mm jacks, 10cm (4") Silicone; 4mm Jacks to 0.031" socket MicroLead, 10cm (4") Silicone; MicroClip test clips; MicroLeads, 0.031" pin to socket, 10cm (4") silicone; MicroLead, 0.031" socket to socket, 5cm (2") silicone; 150 MHz Oscilloscope Probe x1/x10/Ref; SMD tweezer. ***One-Year Warranty.*** (France)
No. 220AC3031 ..... **$224.00**

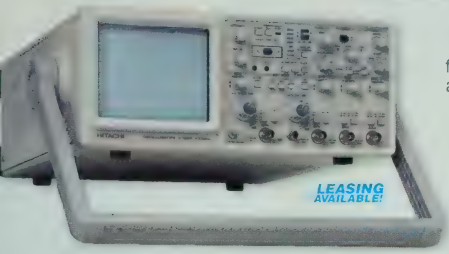
High Voltage Lead Set - 4 pcs *New!*

Built to safely test high-voltage applications such as dielectric withstanding or ground-bond testing. This high voltage lead set provides that extra protection for voltages up to 5,000 volts. The set consists of a 4mm plug to alligator clip lead pair with 1 meter cable and an alligator clip pair with 4mm jack. Both the extended length 4mm sheath banana plugs and the booted alligator clips provide over 50mm of creep distance for transient overvoltage protection to 7,000V. The 1 meter cable is silicone jacketed for flexibility and voltage protection. Connect the 4mm plugs to your test instrument or plug them into the additional alligator clips for clip to clip high-voltage lead assemblies. ***One-Year Warranty.*** (France)
No. 220AC3032 ..... **$65.00**

3 Probe Complete Oscilloscope Probe Kit - 25 pcs *New!*

This contains three complete oscilloscope probes x1, x100 and x1/x10/Ref. Switchable. Each probe includes a full accessory offering which includes a sprung hook, replacement tip, ground lead, insulator caps, and BNC adapter. **Specs:** Pass-Thru: Attenuation: x1; Input Imp. 1R(MΩ), 46C(pf); Bandwidth: 15MHz; Risetime: 27nz; Max. Input: 600 VDC; Switchable: Attenuation: x1/x10/REF; Input Imp.: 1/10R (MΩ), 90/14C (pF); Bandwidth: 10/200 MHz; Risetime: 35/1.8; Max. Input: 600 VDC; X100: Attenuation: X100; Input Imp.: 100R (MΩ), 6.5C(pF); Bandwidth: 250; Risetime: 1.4ns; Max. Input: 1,200 VDC. ***One-Year Warranty.*** (France)
No. 220AC3033 ..... **$106.00**

V252



Portable Analog Scopes

The V-Series of real time analog oscilloscopes are available in bandwidths from 20 to 100 MHz. They are easy to use with super quality and affordably priced. These scopes have a large 6 inch bright CRT screen and feature: an electrostatic charge repellent blue filter, enabling readings even in bright locations. Trigger lock holds a stable trigger on a complex waveform even if the sweep time changes after triggered by holdoff after time adjustment. ***Three-Year Manufacturer's Warranty.***

JUST THE FACTS				
Model	**V 1585**	**V 1565**	**V 695**	**V 252**
Techni-Tool No.	**439TE585**	**439TE565**	**439TE695**	**439TE252**
Bandwidth	100 MHz	100 MHz	60 MHz	20 MHz
Channels	4	2	2	2
Delayed Sweep	YES	YES	YES	-
Max. Sweep Rate	5ns/div	5ns/div	5ns/div	100ns(x10)
Max. Sensitivity	2mV to 5V/div	2mV to 5V/div	2mV to 5V/div	1mv/div x 5
Cursor Measurement	YES	YES	YES	-
Frequency Counter	YES	YES	YES	-
Sweep Time Autoranging	50ns/div	50ns/div	50ns/div	0.2µs/div
Auto Trigger Level	YES	YES	YES	-
A/B Independent Trigger	YES	-	-	-
Trigger Lock	YES	YES	YES	-
Input Impedance	1MΩ//23pF	1MΩ//23pF	1MΩ//23pF	1MΩ//25pF
Power Consumption	42W	40W	40W	35W
Acceleration Potential	17kV	17kV	12kV	2kV
PRICE	**$2195.00**	**$1795.00**	**$1550.00**	**$555.00**

VC 6545

VBasic Series RSO

The New Basic Series RSO have two cursors that can be used to make accurate measurements of voltage, time and frequency. A readout function provides CRT display of setting values. Hardcopies of CRT waveform data are easy to produce, simply connect the external plotter. Captured waveform can be saved as internal memory and recalled for comparison. The RS-232C interface can be used to transfer stored wave-form data to an external computer. Averaging can be used to reduce noise, thereby creating a display of just the signal of interest. The V-695 features: DC to 60MHz; two channels; delayed sweep; cursor measurement; CRT readout; frequency counter; sweep time autoranging; and trigger lock.

JUST THE FACTS	
Model	**VC 6545**
Techni-Tool No.	**439TE545**
Real Time Bandwidth	100 MHz
Vertical Sensitivity	2mV to 5V/div.
Acceleration Potential	17kV
Sweep Time(Real Time)	50ns to 0.5s/div.
Max. Sweep Rate	2GS/s
Trigger Mode	YES
Max. Sample Rate	20mS/s (2 ch)
Memory Capacity	4000W/2000W
Save Memory	YES
Power Supply	90 to 250V
Sweep Time Autoranging	YES
PRICE	**$2895.00**

V-5810

Professional Laptop Color Digital Oscilloscopes

As the number and complexity of oscilloscope functions increase and digital functions are added, operation becomes more complex. To implement a flat operating panel, hierarchical menus become deep in structure, requiring many steps to make the desired settings. In the VC-5800 Series, this design problem was tackled by using the laptop format, which enabled a large operating panel, and one-step access of frequently used functions. By combining analog settings by rotating knobs with direct numeric key settings of values, it was possible to achieve an easy-to-approach operating environment. Waveform observation is easier with a large, 10.4 in. color TFT display. Additional features include: Easy-to-understand menu-driven operation; GO-NOGO help wizard; Help Function; Setup Menu; Divided-screen display; Dual time-based display; and more.

JUST THE FACTS	
Model	**V-5810**
Techni-Tool	**439TE810**
Bandwidth	150 MHz
Channels	4+ External Trigger
Rate Channel	400s/s
Input Impedance	1mΩ ±1.5%
Range	1mV/div to 5 v/div
Max Input	400Vdc
DC Gain Accuracy	±2%
Resolution	8 Bits
Acquisition Memory	64K word
Sweep Time	2ns/div
Pre-Triggering	Up to 10 div
Trigger Sensitivity	1.5 div/mm
Frequency Cut-off	10Hz
Bandwidth Limiter	20MHz
PRICE	**$5595.00**

VC5430

LEASING AVAILABLE!

Portable Color Digital Oscilloscopes - VC 5400 Series

The VC5400 Series of easy-to-use and easy-to-view portable COLOR TFT display family of oscilloscopes. Laptop like 4.4 lb. plastic case is easily transported to a field site or useful on a bench. Every unit comes with a standard 120V AC adapter and internal battery. Interface to PC via RS232C is standard, and both printers and plotters are supported through a Centronics interface, for real-time hard copy output. Setups and memories may be saved from the front panel through a single set of two keystrokes. Features include: GO/NO-GO capability, and full cursor measurements that the user can control. Options include case, and cables. A set of (1:1/10:1) Probes, AC adapter and manual are standard. Each channel and the background grid pattern are individual colors, making critical measurements easy to observe. ***Three-Year Manufacturer's Warranty.***

JUST THE FACTS			
Model	**VC 5410**	**VC 5430**	**VC 5460**
Techni-Tool No.	**439TE410**	**439TE430**	**439TE460**
Bandwidth	20 MHz	50 MHz	150 MHz
Max. Sampling Rate	15 MS/s	30 MS/s	60 MS/s
Channels	2	2	2
Autoset	YES	YES	YES
Record Length	2K w/ch	2K w/ch	2K w/ch
Waveform Save Memories	20	100	100
Vertical Sensitivity	1 mV to 5 V / Div		
Timebase	20ns-50s/div	5ns-50s/div	2ns-50s/div
Trigger Mode	auto, norm, TV-H,V,line		
Special Trigger Mode	differential trigger, divided trigger		
Set Up Memory	10	10	10
Tolerance Checking	NO	Go-No-Go	Go-No-Go
Timed Data Acquisition	NO	Automatic	Automatic
Waveform Measurements	17 IEEE defined Parameter		
Waveform Mathematics	Average, Add, Subtract, Invert, X-Y		
PRICE	**$1595.00**	**$2195.00**	**$2895.00**

AEMC INSTRUMENTS

JUST THE FACTS				
TT No.	115TE1015	115ME1250	115TE110	115TE693
Meter Type	True Megohmmeter	True Megohmmeter	True Megohmmeter	Digital/Analog Megohmmeter
Test Voltage	500, 1000 VDC	250V, 500V, 1000V	500, 1000, 2500, 5000 VDC	AC/DC 0-600 VAC/VDC
Insulation Range	0.1 to 10000MΩ	1MΩ to 5000MΩ±2%	3MΩ to 3000GΩ ±5%	50K to 2000 MΩ ±3%
Resistance Range	0-1000Ω±3%	–	10 to 30,000kΩ ±5%	0.0 to 400KΩ ±3% (7-9V)
Continuity Range	0 to +10Ω/0 to -10Ω±3%	–	–	0.00 - 20.00Ω ±3%
Battery Check	Yes	–	Yes	Yes
600V AC Battery Test Voltage	Yes	Yes	Yes	0 - 600V AC/DC ±3%
Includes:	Batteries, spare fuse, alligator clips, test probes & leads, carry case	Three-color-coded leads, ground lead, insul. alligator clips, test probe, strap	Leads, hex key, 12V NiCad Battery, AC line cord, weather-proof case	Leads, test probe, 2 alligator clips, batteries, soft carry pouch
CE/UL/CSA	UL/CSA	UL/CE	CATIII, 600V CE	CATIII, 600V CE
Power Source	4AA Batteries	Hand Crank	Rechargeable Battery	6AA Batteries (included)
PRICE	$425.00	$699.00	$3795.00	$529.00

LEASING AVAILABLE!

New!

Fall-of-Potential Ground Resistance Testers

These battery-powered testers are simple to operate just connect, press and read the fall-of-potential method. Designed to reject high levels of noise and interference, and measure ground resistance. Has an indicator error light and color coated terminals and lead identification. **(USA)**

	Model 3620K	Model 3640K
TT No.	115TE620	115TE640
Types of Measurements	2&3 pole	2&3 pole
Measurement Range	.5 to 1000Ω	0 to 1999Ω
Ranges	.5 to 1000Ω	20Ω 200Ω 2000Ω
Test Current	10mA	10mA 1mA 0.1mA
Operating Frequency	128Hz	128Hz
Open Voltage	≤24V peak	≤42V peak
Power Supply	1.5V "AA" batteries	1.5V "AA" batteries
Price	$845.00	$895.00

Flexible Current Probes

The flexible sensor permits measurements on conductors where standard clamp-on probes cannot be used. The sensor assembly is waterproof and insulated for 1000V. Has a mV output proportional to the current measured for direct reading on DMMs, loggers, oscilloscopes and power or harmonic meters. The length can be selected from 24" to 60".
(Ask your contact person for details.)

JUST THE FACTS			
TT No.	115TE024	115TE241	115TE242
Model No.	200-24-1-1	1000-24-1-1	3000-24-2-1
Current Range	200A	1000A	300/3000A
Operating Range	0.5-200A	0.5-1000A	0.5-3000A
Measurement Range	5-200A	5-1000A	5-3000A
Output Signal(s)	1mV/A	1mV/A	10mV/A, 1mV/A
Crest Factor	>10	9	3
Residual Noise	200mA/500mA	200mA/500mA	200mA/500mA
DC Offset	2mV	2mV	5mV/2mV
PRICE	$269.00	$299.00	$339.00

Prices in this catalog are effective January 1, 2001. While we attempt to hold prices, we cannot control when our vendors increase prices.
We reserve the right to correct misprints.

4-20mA Logger

Monitor DC current, temperature, pressure, flow or troubleshoot process control directly with this logger. Has a simple one button operation and a self adjusting sample rate. This logger is auto ranging with programmable scales and units. Has a standard terminal strip input and low loop impedance. **(USA)**

No. 115TE320 (L320) **$189.00**

DC Voltage Logger

Designed for battery testing, circuit design troubleshooting, sensor monitoring, and power supply profiling. This one button operation logger has programmable scales and units. Has input via color coded safety banana jacks and a input impedance of 1MΩ with an RS-232 output. **(USA)**

0-100V DC Input
No. 115TE410 (L410) **$189.00**
0-10V DC Input
No. 115TE430 (L430) **$189.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Fluke 199

ScopeMeter Series

ScopeMeter 190 Series

For demanding applications, the ScopeMeter 190 Series high-performance oscilloscopes up to 200 MHz bandwidth, 2.5 GS /s real-time sampling and a deep memory engineers who need the full capabilities of a high-performance scope in a handheld, battery powered instrument. Safety Certification: 1,000V CAT II/600V CAT III.

ScopeMeter 123

The compact ScopeMeter 123 is the rugged solution for industrial troubleshooting and installation applications. It's a truly integrated test tool, with oscilloscope, multimeter and "paperless" recorder in one affordable, easy-to-use instrument. Safety Certification: 600V CAT III.

Fluke 196

Fluke 123

Fluke 192

LEASING AVAILABLE!

	Fluke 199	Fluke 196	Fluke 192	Fluke 123
Scope Meter	374TE0199	374TE0196	374TE0192	374TE023
Bandwidth	200 MHz	100 MHz	60 MHz	20 MHz
Channels	2 + DMM Input	2 + DMM Input	2 + DMM Input	2TM
Horizontal Accuracy	0.01% of reading + 1 pixel	0.01% of reading + 1 pixel	0.01% of reading + 1 pixel	0.1% of reading + 1 pixel
Vertical Sensitivity	5mV/d:v to 100V/div	5mV/d:v to 100V/div	5mV/d:v to 100V/div	5mV to 500V/div
Waveform Storage	2 forms: 10 sec WF, WF2	2 forms: 10 sec WF, WF2	2 forms: 10 sec WF, WF2	2 forms: 10 sec WF, WF2
Max. Real-Time Sample Rate	2.5 GS/s	1 GS/s	500 MS/s	25 MS/s
Timebase Range	5 ns -2 min/div	5 ns -2 min/div	10 ns -2 min/div	20 ns -1 min/div
Input Sensitivity	5 mV-100 V/div	5 mV-100 V/div	5 mV-100 V/div	5 mV-500 V/div
Trigger Types	Connect-and-View™ free run, single shot, edge, delay, video, selectable pulse width and external	Connect-and-View™ free run, single shot, edge, delay, video, selectable pulse width and external	Connect-and-View™ free run, single shot, edge, delay, video, selectable pulse width and external	Connect-and-View™ free run, single shot, edge, video
Glitch Capture	50 ns	50 ns	50 ns	40 ns
Measurements	7 cursor + 24 automatic	7 cursor + 24 automatic	7 cursor + 24 automatic	26 automatic
Max. Record Length	27,500 pts / input	27,500 pts / input	27,500 pts / input	512 min/max pts
Capture Last 100 Screens	Automatic with Replay capability	Automatic with Replay capability	Automatic with Replay capability	
WF Memory (Screens/Setups)	10/10	10/10	10/10	2/10
Memory	2/100 screen	2/100 screen	2/100 screen	
PC/Printer Interface	Optional	Optional	Optional	Optional
Warranty	3 Years	3 Years	3 Years	3 Years
Price	$2595.00	$2295.00	$1995.00	$1195.00
Optional Software, Cable & Case Only	374TE190	374TE190	374TE190	374TE190
PRICE	$390.00	$390.00	$390.00	$390.00

FLUKE

GSA Advantage! UL CE

NIST CERTIFICATE

Model TT No.	Fluke 83 374ME833	Fluke 85 374ME853	Fluke 87 374ME087	Fluke 187 374ME187	Fluke 189 374ME189
Display Counts	4,000	4,000	4,000/20,000	50,000	50,000
DC Accuracy	0.1%	0.08%	0.05%	0.025%	0.025%
AC Accuracy/Bandwidth	0.5% 20kHz	0.7% TRMS 20kHz	0.07% TRMS 20kHz	0.4%TRMS 100kHz	0.4%TRMS 100kHz
Frequency Range	200kHz	200kHz	200kHz	1000kHz	1000kHz
Capacitance Range	5µF	5µF	5µF	50,000µF	50,000µF
Ohms Range	40MΩ	40MΩ	40MΩ	500MΩ	500MΩ
Battery Door	Yes	Yes	Yes	Yes	Yes
Backlight	1 Level	1 Level	1 Level	2 Levels	2 Levels
Temperature (with opt. probe)				Yes	Yes
Dual Display				Yes	Yes
Magnetic Hanging Kit (opt.)				Yes, with TPAK	Yes with TPAK
IR Interface to PC				Yes	Yes
Software & IR Cable (opt.)				FVF-SC2	FVF-SC2
Stand Alone Data Logging					Yes
Real Time Clock					Yes
Safety Rating	CAT III 1000V	CAT III 1000V	CAT III 1000V	CAT III 1000V CAT IV 600V	CAT III 1000V CAT IV 600V
Warranty	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime
PRICE (1-3)	**$289.00**	**$325.00**	**$349.00**	**$379.00**	**$399.00**
PRICE (4-9)	**$259.00**	**$299.00**	**$324.00**	**$359.00**	**$374.00**

Documenting Software for the 187 and 189 Fluke View Forms

Real time logging with 187 and 189, data download from 189, and create custom forms; graphs, tables, text information, user data input, and custom graphics and logos. **Includes:** cable for 187 and 189.

No. 374ME734 (FVF-SC2)..... **$150.00**

Fluke 710 Series Single Function Calibrators

If you are an instrument technician that works in a processing plant, these single function calibrators are your choice to get the job done. Each calibrator is taste-oriented. Simply pick the one that fits your needs.

A. Fluke 712 Specifications:
RTD Functions: Pt 100,200, 500; 1000 (385), Pt 100 (392); Pt 100 (392) JIS; Ni 120(672); RTD Range: -200°C to 800°C, -328°F to 1472°F; Resolution: 0.1°C or °F; Accuracy: 0.33°C, 0.6°F; Ohms Range: 15Ω to 3200Ω; Resolution: 0.1Ω; Accuracy: 0.1Ω.
No. 374TE712 Fluke 712 ..... **$795.00**

B. Fluke 714 Specifications:
Functions: J, K, T, E, R, S, B, L, U plus mV; Thermocouple Range: -200°C to 1800°C, -328°F to 3272°F; Resolution: 0.1°C or °F; Accuracy: 0.3°C (or 0.54°F); Voltage Range: -10 mV to 75 mV; Resolution: 0.01 mV; Accuracy: 0.025%.
No. 374TE714 Fluke 714 ..... **$795.00**

C. Fluke 713 30G & Fluke 713 100G Specifications:
Volts/mA: Functions: Current: Pressure(30G): Range: 30 psig/207 kPA; Resolution: 0.001 psig; Accuracy: 0.05% of full span; Pressure(100G): Range: 100 psig/690 kPA; Resolution: 0.01 psig; Accuracy: 0.05% of full span; Current: Range: 0 mA to 24mA; Resolution: 1µA; Accuracy: 0.025%.
No. 374TE713 FLK713-30G.... **$795.00**
No. 374TE7013 713-100G **$795.00**

D. Fluke 715 Specifications:
Volts/mA: Functions: Current, voltage; Current: Range: 0 mA to 24 mA; Resolution: 1µA; Accuracy: 0.02% + 2 counts; Voltage: Range: 0 mV to 100 mV; Resolution: 10µV; Accuracy: 0.02% + 2 counts.
No. 374TE715 FLUKE 715 .... **$795.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Fluke 70 Series Multimeters

FLUKE 26

Model No.	FLUKE 70-3	FLUKE 73-3	FLUKE 21-3	FLUKE 75-3	FLUKE 23-3	FLUKE 77-3	FLUKE 26-3	FLUKE 79-3
TT No.	374ME703	374ME733	374ME213	374ME753	374ME233	374ME077	374ME263	374ME793
Meter Type	DMM	DMM	DMM	DMM	DMM	DMM	True RMS	True RMS
IEC 1010 Rating	600V, CAT II	600V, CAT II	600V, CAT III	600V, CAT III	600V, CAT III	600V, CAT III	600V, CAT III	600V, CAT III
Display Counts	3200	3200	3200	3200	3200	3200	4000	4000
Bar Graph	31 Segment	31 Segment	31 Segment	31 Segment	31 Segment	31 Segment	63 Segment	63 Segment
Diode Test	•	•	•	•	•	•	•	•
Fused Current Inputs	73 only	73 only	•	•	•	•	•	•
Lo Ohms	–	–	–	–	–	–	•	•
DC Volts/Max. Res.	600V/0.1mV	600V/0.1mV	600V/0.1mV	600V/0.1mV	1000V/0.1mV	1000V/0.1mV	1000V/0.1mV	1000V/0.1mV
AC Volts/Max. Res.	600V/1mV	600V/1mV	600V/1mV	600V/1mV	1000V/1mV	1000V/1mV	1000V/1mV	1000V/1mV
AC/DC Max. Amps	-	10A continuous	10A continuous	10A continuous	10A continuous	10A continuous	10A continuous	10A continuous
Max. Resistance	32 MΩ	32 MΩ	32 MΩ	32 MΩ	32 MΩ	32 MΩ	40MΩ	40MΩ
Capacitance	–	–	–	–	–	–	0.1nF-9,999µF	0.1nF-9,999µF
Frequency	–	–	–	–	–	–	1 Hz.-20kHz.	1 Hz.-20kHz.
Premium Electrician's Test Leads Set	–	–	•	–	•	–	•	–
PRICE (1-3)	$119.00	$135.00	$195.00	$165.00	$215.00	$185.00	$239.00	$209.00
PRICE (4-9)	$101.00	$122.85	$168.35	$149.50	$185.00	$168.35	$204.95	$189.00
With Certificate of Calibration PRICE	FLUKE70-3C 374ME7030 $143.00	FLUKE 73-3C 374ME073 $169.00	FLUKE 21-3C 374ME2130 $229.00	FLUKE 75-3C 374ME7530 $199.00	FLUKE 23-3C 374ME2230 $249.00	FLUKE 77-3C 374TE773 $219.00	FLUKE 26-3C 374TE263 $263.00	FLUKE 79-3C 374ME7930 $243.00

Fluke® 7-300/7-600 Series Electrical Testers

These meters feature: 4000 count digital display; Auto selection simplifies voltage measurements in power environments. Input impedance is approximately 2KΩ helping to determine if voltage is from leakage (so-called "ghost" voltages) or a hard connection. Overload protection. Automatic readings of volts AC or DC: 300V in 7-300 and600V in 7-600; 400 Ohm Range/Continuity beeper. TL75 Test Leads included. **Specs:** DC Volts: 40.00V, 400.0V, 600V; AC Volts: 40.00V, 400.0V, 600V; Ohms: 400.0Ω. ***Two-Year Warranty.***

No. 374TE073 (7-300) *Not Shown* **$59.95**
No. 374TE076 (7-600) *Shown* **$69.95**

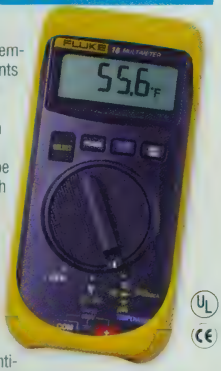
Fluke 10, 11, 12

Fluke® Low-Cost Family of MultiMeters, Ideal for First-Level Electrical and Electronic Troubleshooting.

GSA Advantage!

Model No.	FLUKE 10	FLUKE 11	FLUKE 12B
TT No.	374ME010	374ME011	374TE012
Meter Type	DMM	DMM	DMM
Rating	CAT II-600V	CAT II-600V	CAT III-600V
Display Counts	4,000	4,000	4,000
V-Chek	N/A	Yes	Yes
Continuity Capture	N/A	N/A	Yes
Sleep Mode	Yes	Yes	Yes
DC Volts Range	4.000V-600V	4.000V-600V	4.000V-600V
AC Volts Range	4.000V-600V	4.000V-600V	4.000V-600V
Diode Test	Yes	Yes	Yes
Resistance	400Ω-40MΩ	400Ω-40MΩ	400Ω-40MΩ
Capacitance	N/A	1µF-10,000µF	1µF-10,000MFF
Warranty	2 Year	2 Year	2 Year
TL75 Test Leads Set	•	•	•
PRICE (1-3)	$79.00	$89.00	$99.00
PRICE (4-9)	$67.35	$76.45	$129.00
TT No.	374ME100	374ME110	374ME012
With Certificate of Calibration	Fluke 10C $113.00	Fluke 11-C $123.00	Fluke 12-C $129.00

Fluke 16



CATIII-600V

Make fast, accurate temperature measurements with the Fluke 16. An 80PK-1 bead probe thermocouple and an 80AK temperature adapter (for most type K thermocouples with mini-connectors) is included. Use it for your everyday measurements–AC or DC voltage up to 600V, resistance up to 40 megohms, plus diode tests, exceptionally fast continuity, and MIN/MAX with time stamp. You can also test motor start and run capacitors up to 10,000 microfarads. Flame rod circuit tester measures down to 0.1mA. *Meets IEC.* ***Three-Year Warranty.***

No. 374ME016 FLUKE 16 ..... **$129.00**

Fluke® 39 Power Meter/41B Power Harmonics Analyzer

NIST CERTIFICATE — LEASING AVAILABLE! — GSA Advantage! — CATIII-600V

Model No.	FLUKE 39	FLUKE 41B	FLUKE 43
TT No.	374ME039	374TE410	374TE043
Fluke Model	Power Meter 39	Pwr Harmonic Analyzer	Fluke 43
True RMS Range V	5V to 600V	5V to 600V	OW-2.50MW
Input Bandwidth	DC6Hz to 2.1KHz	DC6Hz to 2.1KH	V (1)0-20Mhz;I (2) 10Khz-15Khz
Crest Factor (±4%)	1.00 to 5.00	1.0 to 5.00	Infinite
Power Factor (±0.02)	0.00 to 1.00	0.00 to 1.00	0.00 to 1.00
Phase Measurement Range	-179° to 180°	-179° to 180°	-179° to 180°
K-Factor (Model 41B)	-	1.0 to 30.0 (± 10%)	1.0-30.0
(%THD-F) Total Harmonic Distortion	0.0% to 99.9%	0.0% to 99.9%	Yes
(%THD-R) Total Harmonic Distortion	0.0% to 99.9%	0.0% to 99.9%	Yes
Waveform Memory	-	stores 2048 sample points	10 Screens
RS-232 Interface	No	Yes, optically isolated	Yes
PRICE	$1095.00	$1895.00	$1995.00

Fluke 50 Series II Thermometers

Fluke's rugged new 50 Series II Thermometers offer high accuracy with fast response times to quickly capture your measurement and show you trends. Choose from our "Just the Facts Chart" to get the functionality, thermocouple support and data logging you need.

GSA Advantage! FLUKE

JUST THE FACTS						
TT NO.	374TE542	374TE532	374TE522	374TE512	374TE005	374TE050
Features/Model	54 Series II	53 Series II	52 Series II	51 Series II	50D	50S
Thermocouple Types	K, J, T, E, R, S, N	K, J, T, E, R, S, N	K, J, T, E,	K, J, T, E	K, J	K, J
Number of Inputs	Dual	Single	Dual	Single	Dual	Single
Time Stamp	Time of Day	Time of Day	Relative Time	Relative Time		
Splash / Dust Resistant	X	X	X	X		
Dual Display w/ Backlight	X	X	X	X		
MIN/MAX/AVG Record	X	X	X	X		
Compatible w/ Toolpak	X	X	X	X		
(T1-T2) Readout	X		X		X	
Logging up to 500 points	X	X				
IR Port for Download to PC	X	X				
Measurement Range	-418°F to 2501°F	-418°F to 2501°F	-418°F to 2501°F	-418°F to 2501°F	-328°F to 2498°F	-328°F to 2498°F
Display Resolution	0.1°C/F/K < 1000° 1°C/F/K ≥ 1000°	0.1°C/F/K < 1000° 1°C/F/K ≥ 1000°	0.1°C/F/K < 1000° 1°C/F/K ≥ 1000°	0.1°C/F/K < 1000° 1°C/F/K ≥ 1000°	0.2°F over full range	0.2°F over full range
Warranty	3 Years	3 Years	3 Years	3 Years	1 Year	1 Year
PRICE	$299.00	$249.00	$219.00	$169.00	$139.00	$109.00

Fluke View Forms Software with Cable.
No. 374TE054 (SC54) **$150.00**
Fluke View Forms Software without Cables.
No. 374TE540 (SW54) **$100.00**
General Purpose Bead Probe.
No. 374TE800 (80PJ-1) **$13.00**

Type T Thermocouple Piercing Probe.
No. 374TE805 (80PT-5A) **$58.00**
Type J General Purpose Probe.
No. 374TE809 (80PJ-9) **$35.00**
Type K General Purpose Probe.
No. 374TE009 (80PK-9) **$35.00**

Type J Extension Wire Kit
No. 374TE008 (80PJ-EXT) **$30.00**
Type K Extension Wire Kit
No. 374TE081 (80PK-EXT) **$30.00**
Type T Extension Wire Kit
No. 374TE018 (80PT-EXT) **$30.00**

Fluke 724 Temperature Calibrator

New!

Use the Fluke 724 Temperature Calibrator to measure and source functions to test and calibrate almost any temperature instrument. Has a compact, streamlined shape to make it easy to carry yet powerful and easy-to-use. Features an easy to read dual display to let you view input and output simultaneously. Measure RTD's, thermocouples, Ohms, and volts to test sensors and transmitters. Performs fast linearity test with 25% and 100% step, and executes remote tests with auto step and auto ramp. Power transmitters during test using loop power supply with simultaneous mA measurement leads. **(USA)**

Model No.	724
TT No.	374TE724
Source Function	Max Range/Resolution
DC Current	0 to 24mA / 0.001mA (±.02%)
DC Voltage	0 to 100mV/ 0.01mV (±.02%)
Loop Supply	24Vdc/N/A (±10%)
Thermocouple Types	J, K, T, E, R, S, B, L, U, N
Max Volts	30V
Temperature	10°C to 55°C (90% to 35% R.H)
Shock	1 MeterDrop
Vibration	Random, 2g, 5-500 Hz
Power	4 AA Alkaline
Warranty	3 Years
Price	$1295.00

Fluke® 65 Infrared Thermometer

GSA Advantage!

The Fluke 65 is the ideal tool for measuring surface temperatures of rotating, hard-to-reach, electrically live, or dangerously hot targets. Targeting objects is easy with the bright laser beam. Even in the dark, the display is simple to read with the quality backlit screen. **Specs:** Range: -40° to 500°C (-40° to 932°F); Resolution: 0.1° up to 200°, 1° over 200°, Accuracy: above 0°C (32°F) : ±2°C (±4°F), below ±0°C (32°F): ±5°C (±9°F); Optical Resolution: 8:1 distance to spot size ratio; Emissivity: fixed at 0.95; (2) AA batteries included.

No. 374TE065 FLUKE 65 ..... **$269.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

LEASING AVAILABLE!

30-Series Clamp Meters CAT III-600V

FLUKE

GSA Advantage!

CAT III-600V

NIST CERTIFICATE

JUST THE FACTS					
Model No.	**FLUKE 30**	**FLUKE 31**	**FLUKE 32**	**FLUKE 33**	**FLUKE 36**
TT No.	**374ME030**	**374ME031**	**374ME032**	**374ME033**	**374ME036**
True-RMS	N/A	Yes/700A	Yes	Yes/700A	Yes
Digital/Analog Display	2000	4000	2000	4000	2000
AC Volts	200V/600V	N/A	200V/600V	N/A	200V/600V
Ohms Max Resistance	200Ω	N/A	200Ω	N/A	200Ω
DC Volts	N/A	Yes	N/A	Yes	200V/600V
Frequency	50-60 Hz.	10 Khz.	50-60 Hz.	10 Khz.	45-400 Hz.
Auto & Manual Ranging	Manual	Yes	Manual	Yes	Manual
Crest Factor	N/A	N/A	400A/600A	400A (<1000A Peak)	2≤CF≤3
Min/Max Hold	Display	Display	Display	Yes	Max Hold
DC Current	N/A	N/A	N/A	N/A	200A to 1000A
AC Current	400A	40A to 700A	600A	400A to 700A	200A to 600A
Max Amps w/o Probe	400A	700A	600A	700A	600A
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year
PRICING	**$119.00**	**$269.00**	**$169.00**	**$329.00**	**$249.00**
With Certificate of Calibration	–	**FLUKE 31-C 374ME310**	**FLUKE 32-C 374ME320**	**FLUKE 33-C 374ME330**	**FLUKE 36-C 374ME360**
PRICING With Certification	–	**$319.00**	**$206.00**	**$393.00**	**$298.00**

Clamp & Testers

AEMC INSTRUMENTS

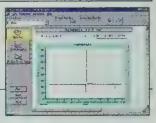
	Fluke	Fluke	Fluke	Fluke	Fluke
TT No.	**115TE701**	**115TE703**	**115TE721**	**115TE725**	**115TE710**
Model No.	**512**	**514**	**721 True RMS**	**725 True RMS**	**3711**
Display	4000	4000	9999	9999	4000
AC Current Range	To 1000A	To 1000A	0.05-700.0A rms Harmonic meter (True RMS)	0.3 to1000A rms Harmonic power meter (True RMS)	To 30A rms
Voltage AC	750V	750V	0.05 - 600Vrms True RMS	0.05 - 600Vrms True RMS	–
Voltage DC	1000V	1000V	–	±0.05 to±600V	–
Frequency	up to 10kHz	up to 10kHz	0.5 to 9999Hz.	0.5 - 20,000Hz	47 to 800Hz
Ohms	4000Ω	4000Ω	-	–	0.10 to 1200A rms
Continuity	Yes	Yes	-	–	–
Conductor Size	–	–	2 - 500 MCM	2-500 MCM	Up to 1000 MCM
Other Functions:	Includes test leads, soft carrying case, battery and user manual	Includes test leads, soft carrying case, battery and user manual	True RMS A & V; Direct read: %THD, %DF, CF & peak; UL, IEC 1010	Direct read: %THD, %DF, CF & peak ±; K-Factor, % ripple DC	Includes 25Ω calibration check loop
PRICE	**$129.00**	**$159.00**	**$495.00**	**$895.00**	**$1995.00**

DMM Accessories

JUST THE FACTS				
TT No.	Model	Description	H x L x W	PRICE
374TE740	TP74	Lantern Tip Test Probe	1" x 9" x 4"	$10.00
374TE510	C510	Premium Leather Meter Case	4" x11" x7"	$35.00
374TE520	C520	Premium Leather Tester Case	4" x 8" x5"	$25.00
374TE530	C530	Premium Leather Accessory Case	1" x12" x 9"	$25.00
374TE550	C550	Premium Tool Bag	13" x 20"x 9"	$60.00
374AC004	TPak	Tool Pak Meter Hanging Kit	15" x 6" x 1"	$25.00

C. FlukeView® Forms

C



No. 374ED005 (SW89) Software $100.00
No. 374ED006 (SC89) Software w/cable $150.00

DMM Leads and Test Lead Sets

DMM Lead and Test Lead Sets

A. No. 374AC2000 Test Lead Set $45.00
B. No. 374AC464 Elect. Test Lead Set $45.00
C. No. 374AC220 Flexible Test Leads $18.00
D. No. 374AC240 Flexible Test Leads Straight $18.00
E. No. 374TE026 5-Way Multipoint Test Lead Set $35.00
F. No. 374AC028 2-Way Clip Test Lead Set $25.00
G. No. 374AC074 4mm Dia. Test Leads $19.90
G. No. 374AC750 Hard Point Test Lead Set (TM) $11.00
No. 374AC155 Deluxe Test Set $99.00
H. No. 374AC140 Test Lead Set $27.00
J. Standard Lead Kit (NSN:6625010135137)
No. 374AC133 (Y8133) $37.80
J. Shrouded Lead Kit (NSN:6625011011766)
No. 374AC134 (Y8134) $38.85
K. Detachable Probe Set (NSN:6625011490764)
No. 374AC132 (Y8132) $16.80

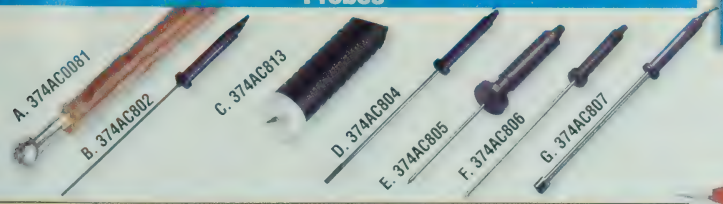
DMM Test Lead Accessories

L. No. 374AC0201 Industrial Alligator Clips $23.00
M. No. 374AC0701 Gold Plated Banana Jack Alligator Clip $8.00
N. No. 374AC0802 Industrial Hook Style Clips $18.00
P. No. 374AC830 Pin-Grabber Test Clip $22.00
Q. No. 374AC085 Large Jaw Alligator Clip $12.00
R. No. 374AC089 Insulation Piercing Clip $23.00
S. No. 374AC0200 Slim-Reach–Flat Test Probes $9.00
T. No. 374AC080 Slim-Reach–Round Test Probes, 2mm $20.00
U. No. 374AC0004 Slim-Reach-Round Test Probes, 4mm $8.00

DMM Current Clamps

	AC Only Models		AC or DC Models		
TT No.	374AC465	374TE086	374AC410	374TE084	374AC101
Model	i200 AC	80i-600A	i-410 AC/DC	80i-400 AC Only	i1010
Current Range	1A to 200A	1A to 600A	AC/DC 1-400A	1A to 400A	AC 1-600A DC 1-1000A
Frequency Resp.	40 Hz. to 40 kHz. 10mV/A, 100mV/A	10 Hz. to 50 kHz. 1mA/A	3 kHz. 1mV/A	5 kHz. 1mA/A	10 kHz. 1mV/A
Maximum Cond. Dia. Category	0.8" CAT III, 600V	1.98" –	1.18" CAT III, 600V	1.18" –	1.18" CAT III, 600V
PRICE	$99.00	$129.00	$154.00	$95.00	$254.00

Probes



TT.No.	Model No.	Type	Measure Range	Other	PRICE
A. 374AC0081	80PK-1	Bead Probe	-40˚C to 260˚C	–	$13.00
B. 374AC802	80PK-2A	Immersion Probe	-196˚C to 1090˚C	–	$47.00
C. 374AC813	80PK-3A	Surface Probe Convex Surface	0˚C to 260˚C	–	$87.00
D. 374AC804	80PK-4A	Air Probe	-196˚C to 816˚C		$64.00
E. 374AC805	80PK-5A	Piercing Probe (Can Not Be Exposed to Halides or Sulfide)	-196˚C to 816˚C	–	$58.00
F. 374AC806	80PK-6A	Expose Probe (Can Not Be Exposed to Halides or Sulfide)	-196˚C to 816˚C Atmosphere or Vacuum	OV to Reducing	$65.00
G. 374AC807	80PK-7	Industrial Surface Environment Probe	-127˚C to 605˚C	Made of 303 Stainless Steel	$189.00
374AC808	80PK-8	Pipe Cleaner (Not Shown)	-29˚C to 149˚C Temp. Probe	UsesStandard Type K Thermocouple Mini-Connector	$99.00

Elec. Air Cleaner Test Probe/HVAC/Vrange 1kV-15kV, 10kV RMS AC (CAT III 600V)
No. 374AC151 *(Not Shown)* **$149.00**

Fluke Probe Compatibility

H. No. 374TE806 High Voltage Probe **$65.00**
J. No. 374TE804 High Voltage Probe **$124.00**
K. No. 374AC0850 High Frequency Probe **$99.00**
L. No. 374PR350 Pressure Vacuum Module **$269.00**

GSA Advantage!

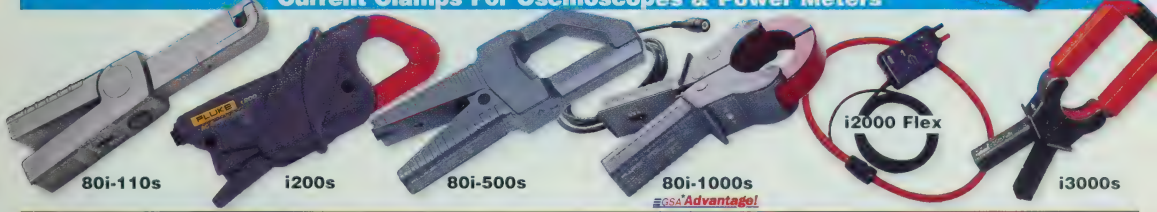
Fluke Temperature Accessories Countability

M. No. 374AC0800 Infrared Temp, Probe **$159.00**
N. No. 374TE0080 Thermocouple Mount **$70.00**
P. No. 374AC815 Universal Temp. Probe **$120.00**

Q. Meter Case

This soft meter case is compatible for 20, 70 and 80 Series Fluke meters. This zippered carrying case is designed with padding and features an inside pocket.
No.374AC025 ..... **$24.00**

Current Clamps For Oscilloscopes & Power Meters



GSA Advantage!

No. TT. No.	80i-110s 374TE110	i200s 374AC466	80i-500s 374TE500	80i-1000s 374TE000	i2000 Flex 374AC152	i3000s 374TE300
Current Range	AC 0.1A to 70A DC 0.1A to 100A	AC 1A to 200A	AC 1A to 500A	AC 100A to 1000A	AC 2A to 2000A	AC 1A to 3000A
Frequency Resp.	100 kHz	40 Hz to 40 kHz	5 Hz to 10 kHz	5 Hz to 100 kHz	1 Hz to 20 kHz	10 Hz to 100 kHz
Output Level	10 mV/A	10 mV/A	1 mV/A	1 mV/A - 100 mV/A	10 mV/A, 1 mV/A	10 mV/A to 0.1 mV/A
Max. Cond. Dia.	0.4"	0.8"	1.18"	2.13"	2.44"	2.52" x 3.94'
Category	CAT III, 300V	CAT III, 600V	CAT III, 600V	CAT III, 600V	CAT III, 600V	CAT III, 600V
Warranty	1 Year	N/A	1 Year	1 Year	1 Year	1 Year
PRICE	$395.00	$149.00	$170.00	$349.00	$249.00	$395.00

Voltage & Continuity testers

Fluke T2 Tester

Your Fluke T2 is a CAT III voltage and continuity tester designed to probe the circuit and show you whether you are looking at AC volts, DC volts or an open circuit, indicating seven AC and seven DC voltage levels. **Specifications:** continuity threshold; beeper on at <150,000Ω; beeper off at >300,000Ω; input impedance ±1MΩ; AC frequency response is 45 Hz to 66 Hz.; operating voltage is 1000V AC/DC between any terminal and earth ground.
No. 374TE0020 ..... **$54.95**

GSA Advantage!

WAVETEK Meterman

HD-110B | HD-115B | DM2 | 10XL | 25XT | 27XT | 28XT | LCR55 | RMS225A

WAVETEK Meterman Hand-Held Digital Multimeters

(The DM15XL is not shown.)

JUST THE FACTS

TT No.	184TE110	184TE115	184ME001	184ME070	184ME056	184ME025	184ME027	184ME208	184ME550	184ME225
Model	HD-110B	HD-115B	DM2	10XL	15XL	25XT	27XT	28XT	LCR55	RMS225A
Display Counts	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	1,999	4,000
Ranging	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	–	Auto
AC Voltage	1000V	1000V	600V	750V	750V	750V	750V	750V	750V	750V
DC Voltage	1500V	1500V	500V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Basic Accuracy	±0.1%	±0.1%	±0.8%	±0.07%	±0.5%	±0.05%	±0.05%	±0.05%	±0.5%	±0.25%
AC Current	10A	10A		–	10A	10A	20A	20A	20A	10A
DC Current	10A	10A	200mA	10A	10A	10A	20A	20A	20A	10A
Freq. Counter	–	–	–	–	–	to 40 kHz	20MHz	20kHz	–	–
Cap. Range	–	100pF-20mF	–	–	–	20mF	2000µF	20mF	2000µf	–
Resist. Range	20MΩ	20MΩ	2MΩ	20MΩ	2000MΩ	20MΩ	2000MΩ	20MΩ	20MΩ	40MΩ
Logic Test	–	–	–	–	Yes	Yes	Yes	–	–	–
Transistor Test	–	–	–	–	–	Yes	–	–	–	–
Data Hold	Yes	Yes	–	–	–	Yes	–	Yes	Yes	Probe Hold
Diode Test	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Other Features	Safety Tester	Safety Tester	Pocket Size	Safety Tester	–	Logic	20Hz Inductance	Continuity Check	Transitor Testing	True RMS
Auto Off	Yes	Yes	–	–	–	Yes	Yes	–	Yes	Yes
PRICE	$149.95	$189.95	$29.95	$49.95	$59.95	$99.95	$119.95	$124.95	$179.95	$179.95

JUST THE FACTS

TT No.	184TE220	184TE235
Model	220	235
Display Counts	4,300	4,000
Ranging	27	45
AC Voltage	100µV-750V	100µV-750V
DC Voltage	100µV-1000V	100µV-1000V
Basic Accuracy	±1.5%/0.25%	±1%/0.25%
AC Current	100nA-10A	100nA-10A
DC Current	100nA-10A	100nA-10A
Frequency Counter	–	1Hz-40Mhz
Capacitance Range	–	1pF-40mF
Resistance Range	0.1Ω-43MΩ	0.1Ω-40MΩ
Logic Test	–	–
Transistor h_{fe}	–	PNP, NPN
Data Hold	–	yes
Other Features	Diopter Test	RS-232; Temp. -4° to 2300°F
PRICE	$149.95	$209.95

Capacitance & Resistance DMM

Use it out in the field for those quick component checks or use for incoming quality control tests. This small Capacitance and Resistance meter has a wide measurement range. Measure capacitance in nine ranges from 200pF to 20mF. An external meter knob adjusts out stray capacitance from test leads in the 200pF range. Seven ranges for resistance from 20Ω to 20MΩ. The CR50 also has a diode test function and a continuity beeper feature. **Specs:** Capacitance: 0.1pF in the 200pF range; Resistance: 0.01Ω in the 20Ω range.

No. 184TE500 ..... **$69.95**

Protective Holster

No. 184AC010 ..... **$9.95**

Soft, Vinyl padded Carry Case

No. 184CA030 ..... **$14.95**

Short Finder Brush

The Short Finder Brush allows you to quickly sweep over multiple test points and instantaneously find the approximate location of continuity. **Specs**: Output Voltage: 0.5 VDC; Max Current: 100uA; Continuity Threshold: 10Ω. 2 AAA batteries.

No. 184TE001 ..... **$39.95**

Pulse Counter FC130A

This 1/3Ghz frequency counter measures frequency, period, and rate per minute (RPM). Fast reading, high resolution, and 8 digit LED display with exponent indicator. Continuously variable gate time. Switchable AC or DC input coupling, X20. Attenuator, and low pass filter.

No. 184TE130 (FC130A) **$629.00**

17 MHz Logic Probe

Detect pulses as narrow as 30ns at up to 17MHz. This logic probe is switch-selectable TTL or CMOS and signal-input protected to ±220VAC/DC for 15 secs. It features a pen-size design with pulse memory; bright, triangular LEDs; and input impedance of 1MΩ. ***One-Year Warranty.***

No. 184ME100 ..... **$19.95**

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Phone: 1-800-832-4866
or 1-610-941-2400

Test-Pro Multimeters

New!

IDEAL

JUST THE FACTS						
Model	**61-421**	**61-360**	**61-361**	**61-362**	**61-630**	**61-631**
TT No.	**462TE421**	**462TE360**	**462TE361**	**462TE362**	**462TE630**	**462TE631**
AC Voltage	200M - 850V,1.2%±	200M-600V,1.0%±	200M - 600V,2.0%±	3.2V-600V,2.0%±	4V-750V,0.5%±	400M-750V, 1.0%±
DC Voltage	200M-850V, 0.5%±	200M-600V, 0.5%±	200M-600V, 1.2%±	320M-600V, 1.2%±	400M-1000V,0.1%±	400M-1000V, 0.3%±
AC Current	200µ-20A, 1.5%±	200µ-10A, 1.5%±	2A, 3%±	320µ-10A, 2.5%±	400M-10A, 1.5%±	400µ-20A, 1.5%±
DC Current	20µ-20A, 1%±	200µ-10A, 1%±	2A, 2.5%±	320µ-10A, 2%±	400M-10A, 0.1%±	400µ-20A, 1%±
Resistance	200-20MΩ,1%±	200-20MΩ,1%±	200-200MΩ,1%±	320-32MΩ,1.5%±	400-40MΩ,0.2%±	400-40MΩ, 0.5%±
Capacitance	20-20k µF, 4%±		20µ-20m F, 4%±		4nF-40µF, 3%±	0µF-100µF, 3%±
Instant Continuity	X	X	X	X	X	X
Diode Test	X	X	X	X	X	X
Frequency	200-2k Hz, 0.5%±		10-100k Hz, 0.5%±		10Hz-150kHz, 2.0%±	10k-10M Hz, 0.1%±
UL or CE	UL	UL	UL	CE	CE	UL
Warranty	**5 Years**	**2 Years**	**2 Years**	**2 Years**	**1 Year**	**1 Year**
PRICE	**$143.15**	**$51.75**	**$84.75**	**$80.30**	**$168.50**	**$235.90**

21st Century DMM Series

TRIPLETT

Affordable, state-of-the art DMMs, designed for use in the field.

	2102	**2103**	**2104**	**2105**
TT No.	**790TE102**	**790TE103**	**790TE104**	**790TE105**
True RMS	Yes	Yes	No	Yes
Range Selection	Manual	Auto / Manual	Manual	Auto / Manual
Digital Display	3-1/2 Digit, 1999 Count	3-3/4 Digit, 3999 Count	4-1/2 Digit, 19999 Count	3-3/4 Digit, 3999 Count
Bargraph	42 Segment	42 Segment	42 Segment	42 Segment
DC Voltage	(4) 200mV to 200V	(4) 400mV to 400V	(4) 200mV to 200V	(4) 400mV to 400V
AC Voltage	(5) 200mV to 750V	(5) 400mV to 750V	(5) 200mV to 750V	(5) 400mV to 750V
DC Current	(3) 2mA to 20A	(4) 40mA to 20A	(4) 2mA to 20A	(6) 400µA to 20A
AC Current	(3) 2mA to 20A	(4) 40mA to 20A	(4) 2mA to 20A	(6) 400µA to 20A
Resistance	(6) 200Ω to 20MΩ	(6) 400Ω to 40MΩ	(6) 200Ω to 20MΩ	(6) 400Ω to 40MΩ
Frequency	(6) 2KHz to 2MHz	(4) 4KHz to 40MHz	(3) 20KHz to 2MHz	(5) 4KHz to 40MHz
Capacitance	(6) 2nF to 200µF	(6) 4nF to 200µF	(4) 20nF to 200µF	(6) 4nF to 400µF
Temperature	-40°F to 1999°F	-40°F to 2190°F	-	-40°F to 2190°F
Continuity	≤40Ω	≤40Ω	≤30Ω	≤40Ω
Diode Check	X		X	X
Total Ranges /Functions	41	46	37	52
Backlit Display	No	Yes	No	Yes
Number of Displays	Dual	Dual	Quad	Quad
Memory / Recall	10	5	10	10
Agency Approval	CE, CAT III 600V AC/DC	CE, CAT III 600V AC/DC	CE, CAT III 600V AC/DC	CE, CAT III 600V AC/DC
Warranty	**3-Years**	**3-Years**	**3-Years**	**3-Years**
PRICE	**$155.95**	**$239.95**	**$194.95**	**$279.95**

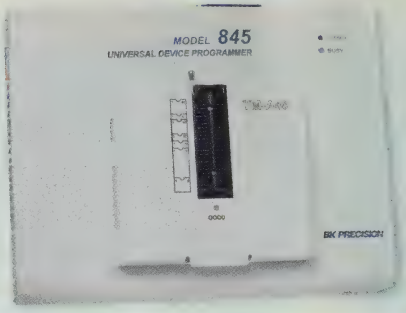
GSA Advantage!

BK PRECISION

Universal Programmer

These Universal Device programmers program the most devices of all our programmers. Support for over 2800 chips is included in your choice of DOS or Windows 95/98/NT platforms, all included with the 845. Most of the new low voltage devices are covered and a multi-device adapter is available to program up to eight devices simultaneously.

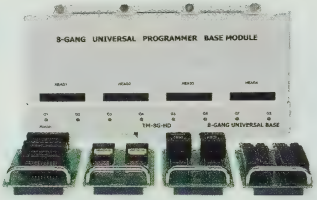
Auto search device select function supports E(E)PROMS and Flash Memory.
Full Screen Menu operates by simple keystroke commands.
Automatically configures for host parallel port.
Supports JEDEC, Intel Hex, Motorola S Records, Binary Tektronix Protocol and ASCII file formats with File Load/Save commands.
Optional adapters for surface mount devices.
Test TTL, CMOS, RAM with Model 845.



Model	840	841	842	844	845	846	847
TT No.	310TE840	310TE841	310TE842	310TE844	310TE845	310TE846	310TE847
Device Supported	Eproms, Page Eproms, EEproms, Proms		Pals, Prom, Eprom, EEprom, Serial (E) Prom EPLD, Gal, Peel & Microcontroller			Serial (E) Prom, EPLD, Gal, Peel, Microcontroller & Hash Eprom	
Device Library	500 Plus		1800 Plus	1300 Plus	3100 Plus	1500 plus	
Interface	8-bit ISA bus adapter card			Stand parallel port (LPTI) LPTI,LPT3			
Programming Socket 300-600 pin spacing	(1) 32 pin ZIF	(4) 32 pin ZIF	(1) 48 pin ZIF	(1) 40 pin ZIF	(1) 48 pin ZIF	(1) 48 pin ZIF (3) 32 pin ZIF	(1) 48 pin ZIF
Accessories	Software diskette, 40 pin ribbon 8 bit ISA bus adapter card		Instruction manual, software diskette 40 pin ribbon cable 8-bit ISA card	AC Power Cord, Parallel Printer Cable (6 ft)	AC Power Cord, Parallel Printer Cable (6 ft)	AC Adapter Parallel Printer Cable (6 ft)	
Software Feature:	Device Functions Blank Check, Read Program, Verify, Checksum, Encryption, Data Compare, Auto Program, Buffer Features Clear, Edit, Fill, File Load, File, File Save; Programming Algorithms Normal, Intelligent, Quick Pulse, Flash Programming; Miscellaneous Functions Manages 8, 16, 32 bit data split, Macros, Batch execution, DOS shell, (844 & 845 in Windows™ environment). Auto Device search and Self test, Host computer: IBM PC/XT/AT/366/486/Pentium						
PRICE	$219.95	$278.95	$745.60	$450.60	$1389.30	$531.00	$638.35

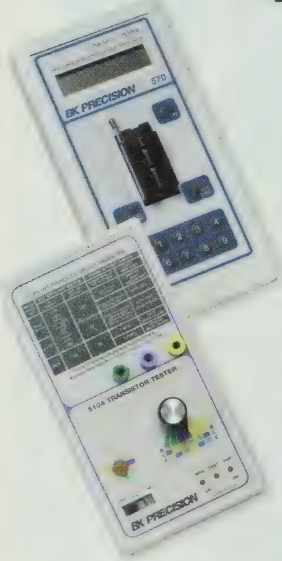
Universal Programmer 8-Gang Base

Accommodate gang programming of EPROMs and Microcontrollers in multiple IC packages with this Universal Programmer.
No. 310PR800 ..... **$455.00**



EPROM Eraser

This heavy duty EPROM Eraser simultaneously erases up to 40 twenty-four pin EPROMs, and features a 60 minute timer.
No. 310PR851 ..... **$181.30**



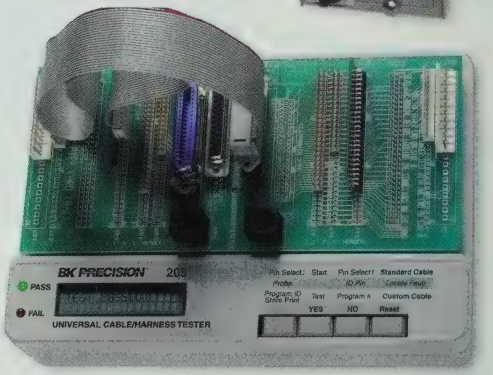
Digital IC Tester

Tests a large variety of digital ICs with the Digital IC Tester. The large built in library offers you a broad range of ICs to select from, including TTL, CMOS, Memory, LSI and others. Simple single shot IC tests are easily performed by keying in the IC number on the integrated keypad. **Features:** 40 pin wide entry ZIF sockets; identifies unmarked and house-coded devices; detects intermittent and temperature related faults; displays diagnostic information for individual pins.
No. 310PR575 ..... **$852.90**

GSA Advantage!

Transistor Tester

Perform good/bad test for transistors, FET's, and SCR's with this Transistor Tester. Also identify NPN or PNP for transistors, N-channel or P-channel for FET, FET-gate lead, all leads of transistors in LO drive, base lead in HI drive, and all leads of SCR. **Includes:** test leads; case; manual.
No. 310TE510..... **$284.30**



Universal Cable Tester

Test just about any cable or harness in fractions of a second with the Universal Cable Tester. It is a compact, stand-alone unit that can be used for any type of wired assembly. Opens, shorts and miswires are detected immediately. Test up to 128 points in a fraction of a second and stores up to 50 test programs. The universal adapter card offers outstanding flexibility and convenience, ready to accept any of the industry's most popular 22 connector styles. A crisp, easy-to-read LCD instantly indicates good or faulty connections and the included probe pinpoints the trouble spot.
No. 310TE205 ..... **$985.95**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Analog Oscilliscopes

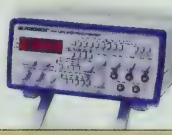
2190B

2120B

5105A

JUST THE FACTS						
Model	**2190B**	**2160A**	**2125A**	**2120B**	**2522B**	**5105A**
TT No.	**310ME190**	**310TE2160**	**310TE2125**	**310ME021**	**310ME2522**	**310ME5105**
Bandwidth	100mHz Analog	60mHz Analog	30mHz Analog	30mHz Analog	20mHz Analog/Digital	100mHz Analog/Digital 150
Channels	2	2	2	2	2	1 or 2 Separate
Input Impedance	1mΩ ± 3%	1mΩ ± 2%	1mΩ ± 2%	1mΩ ± 2%	1mΩ + 2%	1mΩ + 15 pF
Input Capacitance	25 pF ± 10 pF	25 pF ± 10%	25 pF ± 10 pF	25 pF ± 10 pF	25 pF ± 10 pF	-
Frequency Res	DC to 100MHz	DC to 60MHz	5mV to 5V/Div	5mV to 5V/Div	5mV to 5V/Div	DC to 150MHz
Rise Time	3.5ns	5.8ns	12ns	12ns	17.5ns	< 2.3ns
Signal Delay	Variable	-	-	-	-	-
Max Input Voltage	400V(DC + AC Peak)	400V(DC + AC Peak)	400V(DC + AC Peak)	400V(DC + AC Peak)	400V(DC + AC Peak)	400V(DC + AC Peak)
Sensitivity	5mV/Div-5V/Div	5mV/Div-1V/Div	5mV/Div-5V/Div	5mV/Div-5V/Div	5mV/Div-5V/Div	-
Attenuator	10 Calibrated Steps (1-2-5)	1-2-5 sequence & 5xgain	10 steps in 1-2-5 sequence	10 steps in 1-2-5 sequence	-	-
Warranty	3 Years	3 Years	3 Years	2 Years	3 Years	2 Years
PRICE	**$1599.00**	**$1179.00**	**$711.65**	**$588.95**	**$1210.65**	**$2195.00**

Function Generators



JUST THE FACTS					
Model	**4040A**	**4017A**	**4011A**	**4010A**	**4070A**
TT No.	**310TE040**	**310TE017**	**310ME3011**	**310TE010**	**310TE4070**
Frequency Range	0.2 Hz to 20 MHz	0.1 Hz to 10 MHz	0.5 Hz to 5 MHz	0.2 Hz to 2 MHz	0 Hz to 21.500 Mhz
Counter Digits	5	5	4	N/A	10
Ranges	8	8 GSA Advantage!	7	7	Synthesized
Sweep LIN and Log	100:1	100:1	100:1 (Ext)	100:1 (Ext)	Full Range or
Display Resolution	5 Digit	5 Digit	4 Digit	N/A	0.1MH to 21.5MHz
DC Offset	preset ± 0.1 type variable	preset ± 0.1 type variable	preset ± 0.1 type variable	preset ± 0.1 type variable	OV- ± 10V, 1mV steps
PRICE	**$584.70**	**$428.00**	**$337.95**	**$268.20**	**$1603.85**

Digital Multimeters

310TE391

310TE405

310TE407

310TE408

310TE875 & 310TE878

JUST THE FACTS						GSA Advantage!
Model	**391**	**2405A**	**2407A**	**2408**	**875B**	**878**
TT No.	**310ME391**	**310TE405**	**310TE407**	**310TE408**	**310TE875**	**310ME878**
Meter Type	**True RMS**	**Mini-Pro**	**Mini-Pro**	**Mini-Pro**	**LCR Meter**	**LCR Meter**
AC Volts Max Resolution	10μA - 1mA(s)	100 mV - 1V	320 mV -600V	200 mV -600V	Low Ω	-
DC Volts Max Resolution	10μA- 1mA	200 mV - 1V	100μV - 1V	100μV -1V	-	-
Basic DCV Accuracy	±0.05%	±2.9%	±1.2%	±2.0%	-	-
AC Amp Max Resolution	200μA - 200mA	N/A	320μA - 10A(5)	0.1μA - 10mA(5)	-	-
DC Amp Max Resolution	2000μA - 200mA	0.1μA-10A	320μA - 10A(5)	0.1μA - 10mA(5)	-	-
Resistance	10mΩ	10mΩ	320μA - 31mΩ(6)	200mΩ - 20mΩ(4)	-	10Ω - 10mΩ ± 2%
Capacitance	N/A	-	-	-	2Ω - 20mΩ ± 1%	1000pF - 10mF ± 2%
Inpedance	N/A	10mΩ	10mΩ	10mΩ	200pF - 20mF ± 1%	1 mH -10,000H ± 5%
Display Range	20000 Manual	2000 Manual	3200 Auto/Manual	2000 Manual	-	-
Dual Display	-	-	-	-	-	Value + Q, D
Other	Datahold, Logic Probe	Diode Test, 1.5V & 8V Battery Test, Low Battery Indicator Auto Zeroing	Diode Test, Continuity Test, Data Hold, Low Battery Indicator, Auto Power Off, Bar Graph	Diode Test, Continuity Test, Non-Contact Voltage Indicating, Auto Zeroing	Zero Adjust Dissipation Factor Measurements Inductance: 200μH-200H±2%	Min/Max Average Relative Selectable Test Frequencies
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year
CE or UL Listed	Ce-UL	CE	CE	CE	CE	UL/CE
PRICE	**$185.00**	**$28.95**	**$59.00**	**$48.30**	**$202.75**	**$295.00**

BK PRECISION Power Supplies

PICK THE POWER SUPPLY TO FIT YOUR NEED....

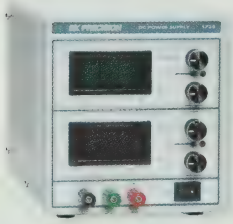
1760

1670

1651A

1651, 1670, 1760 DC Power Supplies

JUST THE FACTS			
Model	1651A	1670	1760
TT No.	310TE1651	310TE670	310TE1660
Output	Triple	Triple	Triple
Output Voltage DC	(A&B) 0-24V, (C) 5V	(A) 0-30V, (B)12V, (C) 5V	(A&B) 0-30V, (C) 5V
Output Current	(A&B) 0-500mA, (C) 4ADC	(A) 0-2.5A, (B&C) 0-500mA	(A&B) 0-2A, (C) 0-5A
Metering	2 Analog	2 Digital	2 Digital
Overload Protection	Current, Limiting, Reverse Polarity, Overvoltage, Short Circuit		
PRICE	$466.65	$213.50	$697.35



GSA* Advantage!

1710A,
1711A,
1715
1730
1735

1710A, 1711A, 1715, 1730, 1735, Single DC Power Supplies

JUST THE FACTS					
Model	1710A	1711A	1715	1730	1735
TT No.	310ME610	310TE1611	310TE1715	310ME1630	310TE1635
Output	Single	Single		Single	Single
Output Voltage DC	0-30V	0-60V	0-60V	0-30V	0-30V
Output Current	0-1A	0-2A	0-2A	0-3A	0-3A
Metering	2 Analog	2 Analog	2 Digital	2 Analog	2 Digital
Overload Protection	Current, Limiting, Reverse Polarity, Overvoltage, Short Circuit				
PRICE	$252.10	$337.95	$417.30	$342.25	$417.30

GSA* Advantage!

1740
1743
1746

1740, 1743, 1746 Single DC Power Supplies

JUST THE FACTS			
Model	1740	1743	1746
TT No.	310AC740	310TE1743	310ME1646
Output	Single	Single	Single
Output Voltage DC	0-60V	0-35V	0-16V
Output Current	0-4A	0-6A	0-10A
Metering	2 Analog	2 Digital	2 Analog
Overload Protection	Current, Limiting, Reverse Polarity, Overvoltage, Short Circuit		
PRICE	$552.50	$552.50	$552.50

1682

1680

1680, 1682 Fixed DC Power Supplies

JUST THE FACTS		
Model	1680	1682
TT No.	310TE680	310TE682
Output	Fixed	Fixed
Output Voltage DC	13.8V	13.8V
Output Current	6A Peak	15A Peak
Metering	None	None
Overload Protection	Current, Limiting, Reverse Polarity, Overvoltage, Short Circuit	
PRICE	$213.50	$320.75

1686, 1688

LEASING AVAILABLE!

1690

1686, 1688, 1690 High Current DC Power Supplies

JUST THE FACTS			
Model	1686	1688	1690
TT No.	310ME1686	310ME1688	310TE1690
Output	High Current	High Current	High Current
Output Voltage DC	3-14V	3-14V	1-15V
Output Current	0-12A @ 13.8V*	0-20A @ 13.8V*	0-28A @ 13.8V
Metering	2 Analog	2 Analog	2 Digital
Overload Protection	Current, Limiting, Reverse Polarity, Overvoltage, Short Circuit		
PRICE	$213.50	$320.75	$349.00

1790,
1791

1790, 1791 High Current DC Power Supplies

JUST THE FACTS		
Model	1790	1791
TT No.	310TE1790	310TE1791
Output	High Current	High Current
Output Voltage DC	0-32V	0-64V
Output Current	20A Peak	10A Peak
Metering	2 Digital	2 Digital
Overload Protection	Current, Limiting, Reverse Polarity, Overvoltage, Short Circuit	
PRICE	$1448.30	$1448.30

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Programmable DC Power Supplies

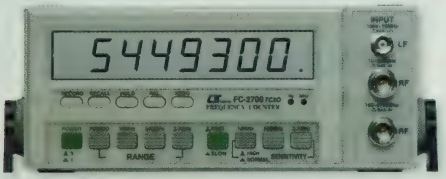
These programmable power supplies offer you an "ease of-use" and programmable functionality in a low-cost solution. Direct key-in entry makes voltage and current selection fast, accurate and easy. User-programmed output allows the operator to preset nine frequently-used voltage and current settings into memory for easy recall with just the press of two buttons. Preprogram a 10 step output routine via the keypad or PC interface for automated testing in preproduction, production or R&D environments. In-case calibration allows for simple, cost-savings, uninterrupted operation.

Model	1785	1786	1787
TT No.	310TE1785	310TE1786	310TE1787
Output Voltage	0-18V	0-30V	0-60V
Output Current	5A	3A	1.5A
Ripple & Noise	< 1mV	< 1mV	< 1mV
Line/Load Regulation	0.02% + 5mV	0.02% + 5mV	0.02% + 5mV
PRICE	$402.30	$402.30	$402.30

Autoscan True RMS Line Power Monitor

True RMS measurements of voltage, current, power, volt-amps, power factor and line frequency. Reads current up to 10A and wattage up to 1300W. Unique, user-settable, scan mode enables continuous monitoring of all parameters. Seven segment display and overrange LED. Data Logging via RS232 interface to PC. ***Three-Year Warranty.***

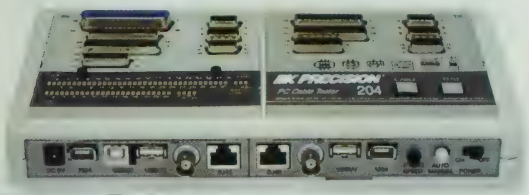
No. 410TE1521 ..... **$595.00**



2.7 GHz Frequency Counter

This reliable 8-digit counter has THREE ranges for maximum resolution to 0.1 Hz. Two "N" style connectors and a BNC allow for a number of inputs. Selectable gatetime and sensitivity with RS-232 output for data recording. Special functions include: data hold, relative and memory for increased ease of use. AC adapter or battery power. **Specs.** Display: 8 digit LCD; Ranges (max resolution): 10MHz (0.1Hz), 500MHz (10Hz), 2.7 GHz(100Hz); Sensitivity: ≤15mVrms typical - varies with range; Frequency Accuracy: ±2PPM +1d (23° ±5°C).

No. 310TE1856 ..... **$503.15**



PC Cable Tester

This stand-alone PC Cable Tester is designed to test popular PC data cables printer, monitor, modem, mouse extension, game, BNC coax, RJ45, 1394, and USB cables for identifying the wire connection status: open, short, cross, miswire, and continuity of wires and pin configuration.

No. 310TE204 ..... **$181.30**

GPIB Programmable Power Supplies

BK PRECISION

LEASING AVAILABLE!

Model	1770	1775	1780
TT No.	310TE1770	310TE1775	310TE1780
DC Output MAX Ratings:			
Voltage	0–17.5V; 0–35V	0-35V	0-18V
Current	0–6A; 0–3A	0-2A	0-4A
Programming Resolution:			
Voltage	10mV	10mV	5mV
Current	2mA	0.6mA	1.5mA
OVP	200mV	200mV	100mV
Programming Accuracy			
Voltage	0.05% +2 LSB	0.05% +2 LSB	0.05% +2 LSB
Current	0.15% +5 LSB	0.15% +5LSB	0.15% +5 LSB
OVP	2.4% +0.3V	2.4% +1.3V	2.4% +0.6V
PRICE	$1019.15	$1389.30	$1448.30

AC Power Supply

Model 1655A

Variable-isolated output - 0-150 VAC, 3 Amp continuous, 4 Amp intermittent output. Built-in soldering iron temperature control. Expanded Leakage scale. Circuit breaker overload protection. Displays volts, amps VA and leakage.

No. 310TE165 ..... **$567.50**

Isolation Transformer

Specifications: Leakage: less than 0.1 mA; Output Voltage: 117-124V nominal (120V input); Output Current: 1.25A continuous.

No. 310PR604 ..... **$122.30**

Model 1653A

Variable-isolated output - 0-150 VAC, 2 Amp continuous output. Displays voltage or current readings isolation transformer to eliminate shock hazard while servicing "hot chassis" equipment.

No. 310TE1653 ..... **$342.25**

Model TR-110

Direct: convenience duplex outlet provides line voltage for auxiliary equipment up to 500 VA. Isolated: Two 3-Position slide switches provide 9 combinations of voltage selection from 90 to 140 volts, up to 350 VA continuous or 500 VA intermittent. Self-contained power switch with pilot lamp.

No. 310PR110 ..... **$225.00**

CRT Analyzer -

The CRT Analyzer simultaneously indicates the performance of each gun on its own meter. By measuring all 3 guns simultaneously, leakage between the elements of different guns is pinpointed immediately. This analyzer has a higher G2 voltage for testing marginal tubes. Rejuvenation tests are conducted with pulsing current, rather than constant current, for better rejuvenation results. Test and restore color, monochrome, projection on most computer monitors. Has G1 and G2 bias. **Includes:** CA23, CA24, CA31 and CRT adapters; Heavy-duty case.

No. 310TE492 ..... **$1282.00**

LEASING AVAILABLE!

NTSC Generator

In the field or at the service bench this handheld unit is ideal for NTSC pattern generation. Generates crosshatch, dots, staircase, circle, center cross, windows, NTSC color bars and a full range of raster patterns. **Features:** S-Video, composite video, and audio output; interlace or progressive scanning system. Includes 9VDC battery.

No. 310TE257..... **$213.50**

Handheld Video Monitor Tester

This handheld unit is ideal for the field or the service bench and can be used to test PC and Mac monitors. Very effective this tester generates crosshatch, dots, color bars and rastner patterns in green, blue, red, black, and white. Has standard DB-9, DB-15, and DB-15 Hi-res mini connectors. Also tests CGA, VGA, and SVGA monitor types. Includes 9VDC battery.

No. 310TE1275 ..... **$202.75**

New!

Synthesized In-Circuit LCR/ESR Meter

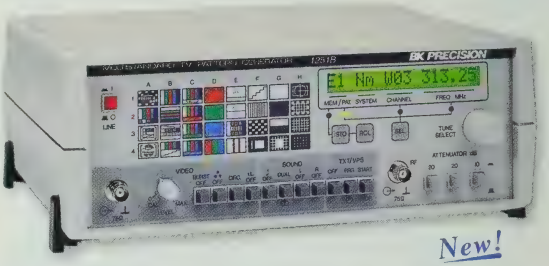
The Synthesized In-Circuit LCR/ESR Meter is the first handheld meter of this type on the market, with a wide range of test frequencies up to 10 kHz and many measurement parameters including Z, L, C, DCR, ESR, D, Q, and O. Designed for both component evaluation on the production line and fundamental impedance testing for bench-top applications. Has a built-in direct test fixture to test lead components very easily. The optional 4-wire test clip gives a convenient connection to larger components and assemblies with the accuracy of 4-wire testing. **Features:** Dual LCD display; SMD Surface Mount Tweezer Probe; Fully auto/manual selection; DC resistance measurement; Infrared RS-232 interface capability. **Specs:** Frequency: 100Hz - 10kHz; Frequency Accuracy: ±0.1%; Level: 1Vrms - 1Vdc; Level Accuracy: ±5%; Output Impedance: 100Ω, ±5%. **Includes:** rechargeable battery and AC cord. ***Two-Year Warranty.***

No. 310TE885..... **$549.00**

NTSC Generator with RGB

Generate a variety of test signals and patterns used in servicing video devices with the NTSC Generator with RGB. This generator also generates separate RGB, horizontal sync, vertical sync and composite sync signals. The video patterns generated include standard NTSC color bars, color bars with 100% white, staircase, black raster, and an assortment of convergence patterns. Convergence patterns include 7 x 11 line, 7 x 11 dot and single centered dot. The RGB output is switch selectable between TTL and low (0.8V) signal levels. A D-type subminiature connector is provided for CGA computer monitors when the TTL level is selected. A 30 Hz signal is provided for isolation of servo problems in VCRs. A switch selectable 4.5 MHz sound sub-carrier is also provided to check audio circuitry. **Features:** NTSC color bar pattern, +5 and +5 IEEE units; CH3, CH4, and IF outputs crystal controlled; Calibrated I Vp-p or variable composite video output; RGB outputs on BNC or 9-pin D connector; Composite sync, vertical sync, and horizontal sync outputs; Interlaced or progressive scan.

No. 310TE249 ..... **$610.45**



New!

Deluxe NTSC/PAL-SECAM Signal Generator

Provide modulated signals for practically all transmission standards currently in use with this signal generator. With the video text recorder function you can check the head position, stepped images, and "Pause" functions of a video cassette recorder. Has 32 different display patterns and you can tune by channel or by frequency.

No. 310TE251 ..... **$2354.80**

LEASING AVAILABLE!

Video Monitor Tester

This Video Monitor Tester is a fully featured bench-top design to test both Mac and PC monitors. All patterns can be manually selected or put the video monitor tester in Auto for automatic cycling of each available pattern. Designed to test one to four monitors this monitor can also be used as a display generator. Has 16 monitor types/resolution selections. Includes: Color bar; Cross Hatch; Dot; Rastner; Window selection. Features: VGA, SVGA, RGB, HV V & Four DB-15 (rear panel) for multiple monitor burn-in.

No. 310TE128..... **$428.00**

Digital Decade Substituters

Economical, indispensable tools for a variety of uses in engineering design, troubleshooting or service. **(USA)** *(Other Models Available – Call!)*

RC-Box

L-Box

R-Box

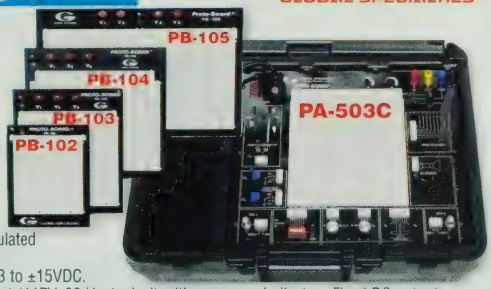
C-Box

No.	Model	Type of Substituter	Decades	Range	Resolution	Accuracy	PRICE
455ME200	RS-200	Resistance	7	0-9,999,999Ω	1Ω	±(1%+25MΩ)	$146.00
455ME202	RS-200W	Wide Range Resistance	9	0-99,999,999.9Ω	0.1Ω	±(1%+30MΩ)	$322.80
455ME300	CS-300	Capacitance	6	0-99.9999Ω	100pF	±(4%+3pF)	$156.00
455ME500	RCS-500	Resistance/ Capacitance	7/6	0-9,999,999Ω/ 0-99.9999μF	1Ω/100pF	±(1%+25MΩ) ±(4%+3pF)	$289.00
455ME502	RCS-502	Precision Resistance/ Capacitance	7/6	0-9,999,999Ω/ 0-99.9999μF	1Ω/100pF	±(0.1%+25MΩ) ±(1%+3pF)	$569.00
455ME400	LS-400	Wide Range Inductance	4	0-9.999H	1mH	±(2%+0.5μH)	$569.00

Breadboard Systems

GLOBAL SPECIALTIES

Portable Breadboarding Workstation



The PB-503C is a complete electronics workstation which features a 100KHz function generator with sine, square, and triangle waveforms, a TTL output, two digital pulsars and eight logic state indicators. The breadboarding area has 2,520 uncommitted tie points with one DC-regulated supply fixed at +5VDC and two variable from ±1.3 to ±15VDC.

Specifications: 3-wire AC line input (117V, 60 Hz. typical) with power-on indicator. Fixed DC output: +5V @1.0A, Variable DC output: +1.3V to +15V. Variable DC output: -1.3V to -15V. *(Available in 220-240VAC@50Hz.) Features include removable breadboard area and optional additional breadboard socket plates; high and low buffered Logic indicators with 8 selectable Logic switches.*

No. 410TE031..... **$349.95** **Bench Model** *(Not Shown)* **No. 410TE503** (PB-503) .. **$299.95**

No. 410PR325 Additional breadboard socket plate..... **$49.95**

Solderless Proto-Board® Systems

Ideal for proto-typing circuit applications to 50 MHz and more. QT sockets and bus strips are mounted on rugged back panels. **Specifications:** Wire Size: #22 AWG wire preferred; Component leads .01"–033" (.25–84mm) acceptable, .015"–032" (.38–.81mm) recommended; Dia. Resistance: ≤0.5mΩ; ***Unconditional Lifetime Guarantee.***

Model	PB-10	PB-102	PB-103	PB-104	PB-105	PB-204
TT No.	410TE100	410TE102	410TE103	410TE104	410TE105	410TE200
*IC Capacity	8	12	24	32	48	24
Terminals		248	450	612	912	450
Tie points	840	1240	2250	3060	4560	2250
Binding Posts	3	1	4	4	5	4
Blackplate	Plastic	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Length	7"	7.4"	9"	9.8"	9.2"	9.8"
Width	4"	4.5"	6"	8"	11.4"	6.6"
Height	1.4"	1.4"	1.4"	1.4"	1.4"	3.3"
Powered	No	No	No	No	No	Yes
PRICE	$17.40	$32.00	$44.00	$65.00	$95.00	$121.00

** Based on 14 pin ICs*

E-Z Check® Plus GFI

This circuit tester checks the following conditions: wrong wiring, open ground, reverse polarity, open hot, open neutral, hot on neutral, hot and ground reversed with open hot and ground fault interruption. **(USA)**

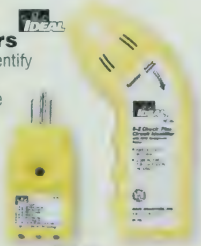
No. 462TE051 .....**$29.30**

E-Z Check Circuit Checker

Determine and identify faults in three wire, 125V circuits– without probes or meters. Bright easy-to-read indicator lights.

No. 462TE012 ..... **$14.40**

E-Z Check® Circuit Identifiers



Allows you to locate and identify any circuit breaker or fuse protecting, energized, single phase, 120V AC electrical circuits without service interruption. Verify proper wiring sequence and GFCI operation. Handheld receiver identifies specific breaker or fuse.

No. 462TE052 ..... **$58.15**

Tec-Tuff® AC and DC Testers

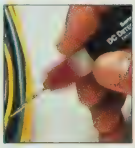
Choice of OSHA

AC Sensor

Outstanding safety instrument locates defective ground, energized circuits and induced voltage. No contact with conductor wire required. Senses voltage through insulation. Fits in shirt pocket for convenience. Probe glows cherry red in presence of AC voltage. Detects 110-600 Volts AC. Alkaline batteries included. ***Lifetime Guarantee.*** **(USA)**

No. 692TE001..... **$19.95**

DC Voltage Detector



This compact, pen-sized 6 to 50 volts DC voltage detector fits perfectly into small areas. Its sharp, stainless steel tip penetrates insulation easily. The LED glows red and the buzzer emits a loud signal when DC voltage is found. **(USA)**

No. 692TE315 ..... **$19.95**

Low AC Locator

No. 692TE215..... **$21.95**

Mag-Probe®

Your non-contact test probe for trouble shooting solenoid operated devices, stepper switches, relays, or any device with a magnetic lectro-mechanical connection. Use on AC or DC. 3-1/2" long. Wt. 1 oz. Standard Model, for standard-sized and larger devices.

No. 177TE001 ..... **$30.95**

High Sensitivity Model, for all solenoids, relays, and reed relays.

No. 177TE002 ..... **$35.95**

Jumper Wire Kit

This compartmental plastic case contains pre-cut/ pre-stripped/pre-formed AWG #22 insulated solid hookup wire. Kit contains 25 pieces each of 14 color-coded lengths - 0.1 through 5 inches.

No. 410PR111..... **$14.95**

EXTECH INSTRUMENTS

EXTECH INSTRUMENTS

Pocket DMM | Mini-Digital | Pen DMM | Auto Range DMM | Heavy-Duty Autoranging DMM | Phase Indicator/ Thermometer DMM | Range Master II | Range Master II+

TT No.	355TE381	355ME602	355TE626	355TE770	355TE225	355ME422	355ME250	355TE278
Meter Type	Pocket w/Logic	Mini DMM	PenDMM/Logic	AutoRange DMM	Autoranging	Phase Indicator	Multi-Function	Wide Range DMM
AC Voltage	100µV to 400V	100mV to 750V	1mV to 500V	1V to 750V	1mV to 600V	1mV to 600V	0.1mV to 750V	0.1mV to 750V
DC Voltage	100µV to 400V	1mV to 1000V	0.1mV to 500V	0.1mV to 1000V	0.1mV to 600V	100mV to 600V	0.1mV to 1000V	0.1mV to 1000V
Basic Accuracy	±1.5% (DCV)	±0.8% (DCV)	±1% (DCV)	±0.8% (DCV)	±0.25% (DCV)	±1.2% (DCV)	0.25-0.6% (DCV)	0.25-0.6% (DCV)
AC Current	-	-	10µA to 300mA	0.1µA to 10A	0.1µA to 10A	–	1µA to 20A	0.01µA to 20A
DC Current	0.1mA to 400mA	1µA to 200mA	10µA to 300mA	0.1µA to 10A	0.1µA to 10A	–	0.1µA to 20A	0.01µA to 20A
Resistance	40MΩ	2MΩ	30MΩ	30MΩ	30MΩ	2000MΩ	20MΩ	200MΩ
Capacitance	-	No	No	320nf, 32µf	No	No	20µF/1pF	200µF/1pF
Frequency	-	No	No	32kHz to 200kHz	No	100kHz	20MHz	20MHz
Display Range	4000	1999	3200	3200	3200	1999	1999	1999
Other	Diode/Continuity Logic test,Battery check, bargraph	Low Cost	Diode/Continuity Logic Test, Data Hold, Bargraph	Diode, Continuity, Transistor test, Bargraph	Auto Range, Input Warning, Bargraph	-4° to 752°F (-20° to 400°C), Frequency	Diode/Continuity, Transistor	Auto Power OFF/Hold; Diode/Continuity; Transistor/Logic
CE/UL/CAT	CE/CAT II-400V	CE	CE/UL/CATII-500V	CE/CAT II-600V	CE/CAT III-600V	CE/UL CAT III-600V	CE/CAT II-600V	CE/CAT II-600V
PRICE	**$29.00**	**$39.00**	**$49.00**	**$59.00**	**$79.00**	**$89.00**	**$79.00**	**$89.00**

display adjusts for best viewing angle

MV110 | MV120 | MV130

MultiView™ Series Digital MultiMeters

For electronic testing and repair, and industrial electrical installation and troubleshooting use the MultiView™ Series Digital MultiMeters. Designed with a tilt display that adjusts 0° to 80° for best viewing angle. Has a large 1" LCD and alarm for improper test lead position. **Includes:** 9V battery, test leads, protective rubber holster & temperature probe (355TE101).

Model No.	MV110	MV120	MV130
TT No.	355TE110	355TE101	355TE102
Description	Digital Multimeter with Square Wave	Digital Multimeter with Temperature	Digital Multimeter with High Resolution
Display	2000 Count	2000 Count	20000 Count
Basic Accuracy	0.5% (DCV)	0.5% (DCV)	0.05% (DCV)
AC Voltage	0.1mV to 750V	0.1mV to 750V	0.1mV to 750V
DC Voltage	0.1mV to 1000V	0.1mV to 1000V	0.1mV to 1000V
AC/DC Current	0.01µA to 10A	10µA to 20A	0.1µA to 10A
Resistance	0.1Ω to 200MΩ	0.1Ω to 200MΩ	0.01Ω to 20MΩ
Capacitance	–	1pF to 20µF	0.1pF to 20µF
Frequency	–	–	1Hz to 20kHz
Temperature	–	-40 to 1832°F	–
Diode/Continuity	Yes	Yes	Yes
Transistor	Yes	Yes	Yes
CE/UL/CAT	CE/CAT II-600V	CE/CAT II-600V	CE/CAT II-600V
PRICE	**$39.00**	**$69.00**	**$99.00**

New!

Optional Software

MT310 | MT320 | MT330

MultiTec™ Series Autoranging MultiMeters

Designed with display prompts to indicate correct test probe connections, blown fuses, and to disconnect power for passive functions. Features data hold, relative functions, and auto power off. **Includes:** Multimeter with stand, test leads, protective holster, 9V battery, and temperature probe. (355TE106 & 355TE107)

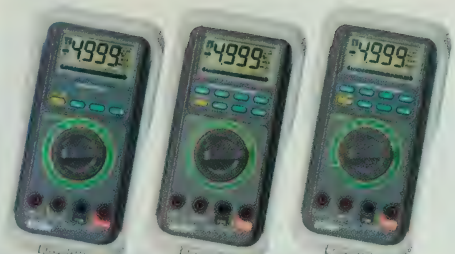
Model No.	MT310	MT320	MT330
TT No.	355TE103	355TE106	355TE107
Description	Multimeter	Multimeter w/ Temperature	True RMS Multimeter w/ Temperature
Display	4000 Counts	4000 Counts	4000 Counts Backlit
Basic Accuracy	±0.5% (DCV)	±0.3% (DCV)	±0.1% (DCV)
PC Interface	Yes	Yes	Yes
AC Voltage	0.1mV to 700V	0.1mV to 700V	0.1mV to 700V TRMS
DC Voltage	0.1mV to 1000V	0.1mV to 1000V	0.1mV to 1000V
AC/DC Current	0.1µA to 20A	0.1µA to 20A	0.1µA to 20A TRMS
Resistance	0.1Ω to 40MΩ	0.1Ω to 40MΩ	0.1Ω to 40MΩ
Capacitance	0.01nF to 100µF	0.01nF to 100µF	0.01nF to 100µF
Frequency	0.1mHz to 10MHz	0.1mHz to 10MHz	0.1mHz to 10MHz
Duty Cycle	0.1% to 99.9%	0.1% to 99.9%	0.1% to 99.9%
Temperature	-	0 to 2000°F	0 to 2000°F
Diode/Continuity	Yes	Yes	Yes
CE/UL/CAT	CE/UL/CAT II-1000V	CE/UL/CAT II-1000V	CE/UL/CAT II-1000V
PRICE	**$79.00**	**$99.00**	**$129.00**

MultiTec® Software Diskette and RS-232 Cable
No. 355TE108 (SW805) **$29.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

New!

Optional Software



MP510 MP520 MP530

MultiPro™ Series Professional MultiMeters

Designed for accuracy (0.08%) and everyday professional use. 20kHz ACV bandwidth, low resistance auto-lead zero, and rugged design. Models with True RMS, Temperature and Peak hold. **Includes:** Multimeter w/stand, CAT III test leads, holster, 9V battery, & temperature probe (355TE112).

Model No.	MP510	MP520	MP530
TT No.	355TE109	355TE111	355TE112
Description	Multimeter	True RMS Multimeter	TruRMS w/Temperature
Display	5000 Counts Backlit	5000 Counts Backlit	5000 Counts Backlit
Basic Accuracy	±0.08% (DCV)	±0.08% (DCV)	±0.08% (DCV)
PC Interface	Yes	Yes	Yes
AC Voltage	0.01mV to 1000V	0.01mV to 1000V	0.01mV to 1000V
DC Voltage	0.01mV to 1000V	0.01mV to 1000V	0.01mV to 1000V
AC/DC Current	0.1µA to 10.00A	0.1µA to 10.00A	0.1µA to 10.00A
Resistance	0.01Ω to 50MΩ	0.01Ω to 50MΩ	0.01Ω to 50MΩ
Capacitance	0.01nF to 9999µF	0.01nF to 9999µF	0.01nF to 9999µF
Frequency	0.001Hz to 125kHz	0.001Hz to 125kHz	0.001Hz to 125kHz
Temperature	-	-	-58°F to 1832°F
Diode/Continuity	Yes	Yes	Yes
CE, UL, CAT	CE/UL/CAT III-600V	CE/UL/CAT III-600V	CE/UL/CAT III-600V
PRICE	$79.00	$99.00	$129.00

MultiPro® Software Diskette and RS-232 Cable
No. 355TE801 ..... **$49.00**

MultiMaster™ Series Precision MultiMeters

New!

Optional Software

Precision 0.02% basic accuracy and a high resolution 50,000/500,000 count display. Features include AC + DC, %4-20mA display, dBm, Relative, Hold, Peak, RS-232, adjustable trigger level for Frequency measurements. MM570 with dual input Temperature displays T1, T2 or T1-T2. **Includes:** Multimeter w/stand, CAT-III test leads, holster, 9V battery, & temperature probe (MM570).

MM560 MM570

Model No.	MM560	MM570
TT No.	355TE560	355TE570
Description	True RMS	True RMS w/Temperature
Display	50000/500000 Backlit	50000/500000 Backlit
Basic Accuracy	±0.03% (DCV)	±0.02% (DCV)
PC Interface	Yes	Yes
AC Voltage	0.01mV to 1000V	0.01mV to 1000V
DC Voltage	0.001mV to 1000V	0.001mV to 1000V
AC/DC Current	0.01µA to 10.00A	0.01µA to 10.00A
Resistance	0.01Ω to 50MΩ	0.01Ω to 50MΩ
Capacitance	0.01nF to 9999µF	0.01nF to 9999µF
Line Frequency	0.0001Hz to 200kHz	0.0001Hz to 200kHz
Logic Frequency	0.0001Hz to 2MHz	0.0001Hz to 2MHz
Temperature	-58 to 1832°F	-58 to 1832°F
Diode/Continuity	Yes	Yes
CE, UL, CAT	CE/UL/CATIII-1000V	CE/UL/CATIII-1000V
PRICE	$229.00	$299.00

New!

Includes Software

ML710 ML720

MultiLog™ Series Datalogging MultiMeters

Datalogs up to 43,000 measurements at speeds to 20 per second. View stored data on the LCD or download to the supplied Windows software to view and analyze. Features Temperature, Capacitance, Frequency with 0.08% basic accuracy. **Includes:** DMM w/stand, CAT III test leads, Windows compatible software and serial cable, protective holster, 9V battery, & temperature probe.

Model No.	ML710	ML720
TT No.	355TE113	355TE114
Description	True RMS w/Temperature	True RMS w/Temperature
Display	5000 Counts Backlit	5000 Counts Backlit
Datalogger	5400 Points	43,000 Points
Basic Accuracy	±0.08% (DCV)	±0.08% (DCV)
PC Interface	Software included	Software included
AC Voltage	0.01mV to 1000V	0.01mV to 1000V
DC Voltage	0.01mV to 1000V	0.01mV to 1000V
AC/DC Current	0.1µA to 10.00A	0.1µA to 10.00A
Resistance	0.01Ω to 50MΩ	0.01Ω to 50MΩ
Capacitance	0.01nF to 9999µF	0.01nF to 9999µF
Frequency	0.001Hz to 125kHz	0.001Hz to 125kHz
Temperature	-58 to 1832°F	-58 to 1832°F
Diode/Continuity	Yes	Yes
CE, UL, CAT	CE/UL/CATIII-600V	CE/UL/CATIII-600V
PRICE	$249.00	$299.00

MultiScope™ and Mini MultiScope™ II

New!

Software Included

355TE270

Models 355TE270 and 355TE265 are True RMS multimeters with dual mode displays. The graphical mode displays actual voltage and current waveforms. The numeric mode displays 3-3/4 digits with an analog bargraph. The automatic set up allows users to operate the most used functions without referring to the instruction manual. Internal memory stores up to 15 waveforms. Model 355TE270 includes RS-232 output with Windows® compatible software and cable

JUST THE FACTS		
TT No.	355TE270	355TE265
PC Interface	Yes	No
Adjustable Trigger	No	Yes
DC Voltage	0.1mV to 1000V	0.1mV to 1000V
AC Voltage	0.1mV to 700V	0.1mV to 700V
DC & AC Current	1µA to 20A	0.1mA to 20A
Resistance	0.1Ω to 40MΩ	0.1Ω to 40MΩ
Capacitance	1pF to 40µF	1pF to 40µF
Frequency	1Hz to 75kHz	0.1Hz to 100kHz
Signal Output	1Hz to 20kHz	1Hz to 20kHz
Oscilloscope Bandwidth	DC to 100 kHz	DC to 100 kHz
Period/Pulse Width	1µSec to 1Sec	1µSec to 1Sec
Duty Cycle	0.1% to 100%	0.1% to 100%
PRICE	$329.00	$249.00

355TE265

No. 355TE276 Automotive Pick-up Adapter for 355TE270 ..... **$29.00**
No. 355AC279 NiCad batteries & AC Charger for 355TE270..... **$39.00**
No. 355AC264 NiCad Batteries & AC Charger for 355TE265 ..... **$39.00**
No. 355CA010 Vinyl Carrying Case for 355TE265..... **$19.00**
No. 355TE277 Temperature Adapter **$29.00**

EXTECH INSTRUMENTS

ISO 9001

JUST THE FACTS	CAT II 500V	CAT II 600V	CAT III 600V	CAT II 600V	CAT III 1000V	CAT III 600V	CAT III 600V
TT No.	355TE323	355TE391	355TE793	355TE393	355TE296	355ME922	355ME892
Meter Type	Mini Analog	Autoranging 400A Mini	600A True RMS AC DMM	600A AC/DC DMM	2000A True RMS DMM	1000A	1000A Temperature
AC Volts Max Resolution	500V	600V-0.1V	600V-0.1V	600V - 0.001V	1000V - 1mV	600V-0.1V	600V-0.1V
DC Volts Max Resolution		600V-0.1V	600V-0.1V	600V - 0.1mV	1000V - 0.1mV	600V-0.1V	600V-0.1V
Basic DC Amp Accuracy	±5% (ACV)	±2% (ACA)	±2% (ACA)	±2%	±2%	±1.5%	±1.5%
AC Amp Max Resolution	50A	400A - 0.01A	600A - 0.1A	600A / 0.1A	2000A / 0.1A	1000A/10mA	1000A/10mA
DC Amp Max Resolution	–	–	–	600A / 0.1A	2000A / 0.1A	1000A/10mA	1000A/10mA
Resistance	–	400Ω	4kΩ	24MΩ	24MΩ	2000Ω	2000Ω
Frequency	–	–	4kHz	100kHz	100kHz	40-400Hz	40-400Hz
Display Range	–	3,999	3,999	2,999 (4999Hz)	5,000 backlit	1,999	1,999
Other		Data Hold and Auto Power off	Peak Hold, Diode/Continuity	Relative, Hold Continuity, Diode	Capacitance, Relative Auto zero, Relative	Overload Protection	Overload -40°F to 2000°F
Warranty	1Yr	1Yr	1Yr	1Yr	1Yr	1Yr	1 Yr
CE or UL Listed		CE	CE/UL	CE	CE	CE	CE
Jaws	Jaws 0.75"	Jaws 0.9"	Jaws 1.6"	Jaws 1.2"	Jaws 2.36	Jaws 1.3"	Jaws 1.3"
Battery and case included	battery only	Yes	Yes	Yes	battery only	Yes	Yes
Leads Included	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PRICE	**$29.00**	**$79.00**	**$169.00**	**$169.00**	**$179.00**	**$149.00**	**$169.00**

ISO 9001

JUST THE FACTS	CAT III 600V	CAT II 600V	CAT II 600V	CAT II 600V	CAT II 600V
TT No.	355ME240	355TE941	355TE942	355TE947	355ME946
Meter Type	200A Mini	200A Mini	30A TRMS Mini	400A True RMS	30A DMM Adapter
AC Volts Max Resolution	500V - 1V	400V - 0.12V	400V - 1V	–	–
DC Volts Max Resolution	200V - 0.1V	400V - 0.1V	400V - 0.1V	–	–
Basic DC Amp Accuracy	±1.2%	±1.0%	±1.5%	±1%	±2%
AC Amp Max Resolution	200A/10mA	200A/10mA	30A/0.1mA	400A/1mA	30A/0.1mA
DC Amp Max Resolution	200A/0.1A	200A/10mA	30A/1mA	400A/10mA	30A/1mA
Resistance	200Ω	400Ω	–	–	–
Frequency	–	1000Hz	–	1000kHz	–
Display Range	2000	4000	4000	4000	–
Analog Bar Graph	–	40 segment	40 segment	40 Segment	–
Other	Overload Protection to 300A	Min/Max Hold; Auto Zero Continuity Test	Data Hold Min/Max Recall Auto Zero	Min/Max Hold; Auto Zero; Non-contact Freq.	Plugs into any brand DMM
Warranty	1Yr	1Yr	1Yr	1Yr	1 Yr
CE or UL Listed	CE	CE/UL	CE/UL	CE/UL	CE/UL
Jaws	Jaws 0.75"	Jaws 0.9"	Jaws 0.9"	Jaws 0.9"	Jaws 0.9"
Battery and Case Included	Yes	Yes	Yes	Yes	Yes
Leads Included	Yes	Yes	Yes	No	Yes
PRICE	**$149.00**	**$229.00**	**$289.00**	**$249.00**	**$229.00**

Wireless Hygro-Thermometer System *New!*

Measure relative humidity from 20 to 90% and temperature from -4 to 140°F from up to 6 remote locations to one base station. The base stations large LCD displays real time with alarm clock function, and local plus remote temperature and humidity. The remote transmitter's LCD displays time, location number, temperature and humidity. **Features:** Resolution: 1% RH, 0.1°F or 0.1°C; Internal clock with alarm; Transmitter can be wall mounted up to 90 feet from the receiver; Transmitter sends updated signal every 6 minutes; base station updates every 1 minute; Operates at 433MHz. **Includes:** (1) Base station; (3) AA batteries; (1) AC adapter; (1) Remote Transmitter; (1) Wall mounting bracket for Transmitter. ***One Year-Warranty.*** (China)

No. 355TE433 ..... **$79.00**

Transmitter

Displays time, location number, temperature and % relative humidity. Wall mount up to 90 feet from the base station. Transmits signal every 6 minutes and base station updates every 1-minute. Transmitter comes complete with 2 AAA batteries and wall-mounting bracket. (China)

No. 355TE437 ..... **$29.00**

TECHNI-TOOL®
Phone: 1-800-832-4866
or 1-610-941-2400

355TE203

355TE208

355TE213

355TE222

JUST THE FACTS				
TT No.	355TE203	355TE208	355TE213	355TE222
Meter Type	DC Power Supply	DC Power Supply	DC Power Supply	DC Power Supply
Voltage Range	0 to 30V	0 to 30V	0 to 30V	1 to 15V
Current Range	0 to 3A	0 to 3A	0 to 3A	0 to 12A
Fixed Outputs	5 and 12V	–	5 and 12V	–
Ripple/Noise Specs	<5mV	<1mV	<5mV	<10mV
Line/Load Regulation	<0.05% +10mV	<0.02% +5mV	<0.05% +10mV	<0.05% +10mV <0.5% +5mV
Overload/Short Circuit Protect	Yes	Yes	Yes	Yes
Display Type	Analog	3-1/2 digit LED (2)	3-1/2 digit LED (2)	Analog
Resolution		0.1V/0.01A	0.1V/0.01A	Continuous
PC Interface	–	Yes - Software included	–	–
Warranty	1Year	1Year	1Year	1Year
CE or UL Listed	CE	CE	CE	CE
PRICE	**$169.00**	**$349.00**	**$199.00**	**$179.00**

Digital Force Gauges

Test Push/Pull measurements in Kg, lbs, oz. and Newton units with these Digital Force Gauges. Exclusive load cell measurement transducer has overrange, low battery, and advanced function indication, along with selectable fast/slow response. **Includes:** (4) adapters: hook, flat, cone and chisel head; 5" extension rod; (6) AA batteries and carrying case.

Specifications	355TE040	355GA501
Range	176 oz., 5000g, 49 N	44lbs., 20kgm, 196 N
Display	5 Digit	5 Digit
Accuracy (23°C)	± (0.2%)	± (0.5%)
Resolution	0.05oz., 1g, 0.01 N	0.01lbs., 0.01kg, 0.05 N
Overload Capacity	10kg	30kg
Update Rate	Fast 0.2 sec., Slow 0.6 sec.	Fast 0.2 sec., Slow 0.6 sec.
Full Scale Deflection	2.00mm	2.00mm
Transducer Type	Load Cell	Load Cell
Peak Hold	Freezes Max reading on display	Freezes Max reading on display
PRICE	**$329.00**	**$439.00**

No. 355AC909 (475099) Test Stand **$799.00**

Measure AC Current With Your Clamp Meter!

AC Line Separator

To use, simply plug the power connector (2 or 3-prong) into the line separator, and the hot/live conductor is separated from the neutral (and ground). Then, simply clamp into the Line Separator for an easy and safe measurement of current without the need to cut off the plug. Two clamp positions: X1 for direct readings; X10 for actual reading multiplied by 10. Features voltage check function. Clamp Window Dim. (O.D. 2-5/8"; I.D. 3/4").

No. 355AC084 ..... **$15.00**

Simpson 260-8 VOM

27 ranges, rugged taut-band movement, varistor protected, multi-purpose, test leads with combination probe and screw-on alligator clips. Mirrored Scale. Separate Jack for 500V Range.

No. 720ME068..... **$198.80**

Process Calibrator Multimeter Includes PC Software

A

B

A precision TrueRMS multimeter with a large dual 40,000 count backlit LCD display permits simultaneous measurement and output of mA, DC voltage or frequency calibration signals. For signal injection applications in electronic R&D and industrial process calibration and repair of 4-20mA loops and meters. The multimeter offers precision (0.03% basic DCV) with advanced features of data hold, 1ms peak hold, auto hold, auto ranging and dual display of voltage + frequency. Measurement functions include Duty Cycle, Temperature, and Pulse Width. The Calibrator provides mA and voltage outputs which can be steady state, in programmed steps of a ramp for accurate calibrations and repair. Two models available, 355ME423 with frequency output, 355TE130 with 600V measurement capability. Complete with input/output test leads, Windows® compatible software, temperature probe, battery, external battery pack, holster and case.

A. No. 355ME423 Process Calibrator Multimeter **$499.00**

B. No. 355TE130 Process Calibrator Multimeter **$499.00**

No. 355AC423 1000 ohm High Impedance Adaptor **$49.00**

No. 355AC014 117VAC 12V Source Adaptor **$35.00**

JUST THE FACTS		
Source Function	**Max Range/Max Resolution**	**Basic Accuracy**
DC Current	25mA/1µA	0.03%
DCVoltage	15V/100µV	0.03%
Square Wave*	0.01Hz to 4800Hz (28 Steps)	0.005%
Measure Functions		
DC Voltage	300V (600V**)/1µV	0.08%
AC Voltage	300V (600V**)/1µV	0.7%
DC Current	400mA/1µA	0.2%
AC Current	400mA/1µA	1%
Resistance	40MΩ/0.01Ω	0.2%
Temperature	1832°F/0.1°F	0.3%+6°F
Frequency	200kHz/0.001Hz	0.2%
Duty Cycle, Pulse Width, Diode Check, Continuity, AC+DC, glitch Capture		
Dimensions/Weight	1.45" x 3.54" x 7.56"/32oz	
*355ME423, **355TE130 only		

Insulation Tester/ Megohmmeter

1 mA test current ensures 1000V/500V/250V rated test voltage. Three test ranges: 2000MΩ/ 1000VDC; 200MΩ/500VDC; 200MΩ/250VDC. Power lock for three minute test. Measures resistance to 200Ω and volts to 600VAC. Offers a fast response for both continuity and resistance. Features auto power off and data hold, full function indication and overload protection.
Specs: Insulation: 250/500/1000V; Insulation resistance (accuracy): ≤1000MΩ (3%rdg + 5 digits); Output short circuit current: ≤2.5mA; Resistance (accuracy): 200Ω (1%rdg); Overload protection: 2200V (<1 min). Contains: 6AA 1.5V batteries, test leads and case with neck strap.
No. 355TE360 ..... **$199.00**

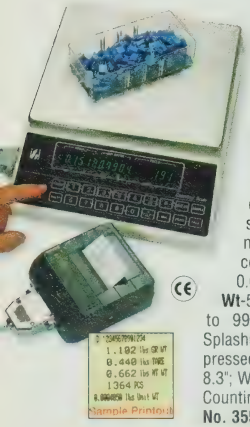
Combination Tachometer

Precise RPM readings for both photo and contact measurements. Large 5 digit LCD display. Accurate to ±0.05%. Micro-processor precision. Resolution of 0.1 RPM. Wide ranges from 0.5 to 20,000 RPM in contact mode and from 5 to 99,999 RPM in photo mode. Linear surface speed measurements from 0.2 to 6560 ft/min or 0.05 to 1999 m/min. Memory Min/Max button holds last reading for 5 minutes and recalls minimum and maximum readings. Complete with all accessories. **Wt:** 10.6 oz. **Dim:** 8.5"L x 2.6"W x 1.5"D.
No. 355TE895 ..... **$229.00**
No. 355AC048 Spare Reflective Tape..... **$4.00**
No. 355PA016 Set of Spare Wheels..... **$20.00**

Combination Photo Tachometer and Stroboscope

Non-contact photo tachometer RPM measurements for fans, motors and rotating machinery and Stroboscopic speed and motion analysis. Accuracy to 0.1%. Stroboscope coarse and fine flash rate adjustments in three ranges to 100,000 flashes per minute. Photo Tachometer to 99,999 RPM with last min and max memory. Display reverses direction for ease of reading. Complete with batteries, reflective tape & carrying case.
Combination Tachometer/Stroboscope
No. 355TE825 ..... **$329.00**
No. 355AC048 Spare Reflective Tape (23") **$4.00**

Precision Counting Scale

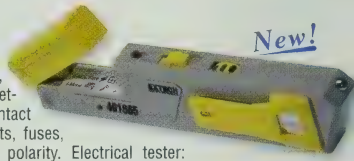


RS-232 output to send data to a PC or to print direct from scale. Count, then press PRINT to transmit piece count, unit weight, and total weight via RS-232C port direct to a serial printer or PC. Printout can include an ID/reference number (i.e. P/N) for product counted. Utilizes precision measurements with strain gauge load cell. Wt. is displayed as net/gross, 4lb/2kg capacity. Vacuum fluorescent displays with high resolution to 0.0005lb(0.0002kg): **Piece Count**-6 digits, **Unit Wt**-5 digits, **Total Wt**-5 digits. Count accumulation to 999999 pcs. Auto Zero & Tare functions. Splashproof keypad with audible feedback when key pressed. Dimensions: 9.5" x 12.3" x 3.1"; Pan: 8.7" x 8.3"; Weight: 10 lbs (4.6 kg). 110/220VAC power. Counting Scale RS-232 Interface/4 pounds
No. 355IN252 .... **$599.00**

Frequency Counter Measures to 2.5 GHz

Features high sensitivity in low/high ranges; data hold and overload indications; max, min and average readings; relative frequency measurements; large 0.5" 8-digit LCD display; period display values from 10 Hz to 10 MHz; Auto/Manual power off; gate time selector. Includes 4x 1.5V AA batteries.
No. 355TE235 2.5 GHz **$249.00**
Options
Probe with Alligator Clip (50 ohm coaxial cable)
No. 355TE012 ..... **$19.00**
Telescoping RF Pick-up Antenna
No. 355TE812..... **$29.00**
No. 355TE996 Carrying Case **$15.00**
No. 355TE217 117 VAC Adapter **$15.00**

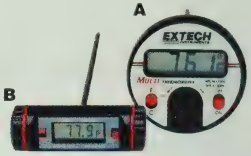
Non-Contact Voltage/Metal Detector



Detect steel, iron, copper, brass, aluminum, and other metals and wire types. Non-contact voltage detector: Check sockets, fuses, light bulbs/lamps, and verify polarity. Electrical tester: Locate LIVE wires, check AC power, verify DC voltage and polarity, check appliance grounds, verify diodes/continuity and check batteries. Detect leaks from ballast, fans, monitors and microwave ovens. **Includes:** attached sensor heads (2), continuity pointer, pocket clip and battery power.
No. 355TE665 ..... **$15.00**
No. 355CA2999 Vinyl Pouch Carrying Case **$10.00**

°C to °F Switchable With High Resolution To 0.1°!

Digital Dial Thermometer

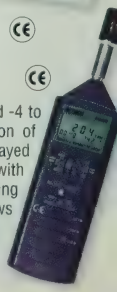


For applications where conventional bi-metal dial pocket thermometers have been used. 2" diameter dial head with large 0.4" digital LCD display and a 5" stainless steel thermistor probe. Has a wide measuring range of -58 to 302°F and -50 to 150°C with a 0.1° resolution with an accuracy of <2°F/1°C for measurements of air, semi-solids and liquids. **Features:** on/off switch, G13 button style battery; complete with plastic protective sheath with pocket clip.
A. No. 355ME050 Dial ..... **$25.00** **B. No. 355TE065** T-Bar **$25.00**

Thermo-Hygrometer Clock

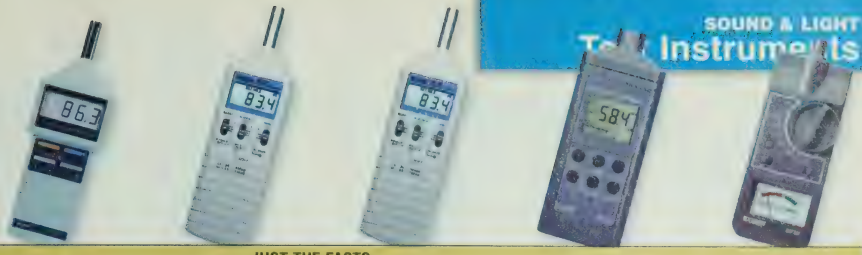
This attractive indicator is ideal for desktop or wall mounting applications. Three large bright LCDs display temperature in both °C and °F, Humidity and Time. Provides Min./Max. readings for temperature and humidity. Measuring ranges include -4 to 122°F (-20 to 50°C) for temperature with accuracy of ±2°F (±1°C) and 25 to 90% RH with accuracy to ±6% in the 40 to 80% RH, ±7% otherwise. 1% resolution. Clock Function automatically displays 12 hour AM/PM indication when in °F mode, and displays military time when in °C mode. Memory with reset function stores minimum and maximum measurements for both temperature and humidity. Complete with built-in tilt stand, wall mounting bracket and AAA battery. Dimensions 4.3 x 2.8 x 0.8", Wt: 4 oz.
No. 355ME880 ..... **$29.00**

Humidity/Temperature Meter And Datalogger



Compact and lightweight. Relative humidity range of 10-95% and -4 to 140°F/-20 to 60°C (switchable) for temperature. High resolution of 0.1% RH, 0.1°C & 0.1°F. Data hold function to hold the displayed value. Models with 10mV Analog Output signal or Datalogger with 7000 point memory and RS232 PC interface. Complete with carrying case, 9V battery. 355TE446 Datalogger also includes Windows compatible software and cable.
No. 355ME465 ..... **$159.00**
No. 355TE446 ..... **$299.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400



Sound Level Meters

JUST THE FACTS					
TT No.	**355ME740**	**355ME735**	**355ME736**	**355TE727**	**355TE706**
Meets IEC 651/ANSI S1.4	**Type 2**	–	**Type 2**	–	–
Meter Type	**Sound Level**	**Sound Level**	**Sound Level**	**Sound Level**	**Analog Sound Level**
Microphone Type	1/2" Condenser	1/2" Condenser	1/2" Condenser	1" Condenser	1/2" Condenser
Range (dB)	30 to 130dB	35 to 130dB	35 to 130dB	40 to 130dB	54 to 126dB
Frequency Weighting	A & C	A & C	A & C	A & C	A & C
Accuracy	±1.5dB	±2dB	±1.5dB	±2dB	±2dB
Resolution	0.1dB	0.1dB	0.1dB	0.1dB	Continuous
Display Type	3-1/2 Digit LCD	3-1/2 Digit LCD	3-1/2 Digit LCD	3-1/2 Digit LCD	Analog
Analog Output	AC & DC	AC & DC	AC & DC	AC	AC
Max Hold - Fast/Slow response	Yes	Yes	Yes	Yes	Yes
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year
CE Listed	Yes	Yes	Yes	Yes	Yes
PRICE	**$219.00**	**$219.00**	**$249.00**	**$79.00**	**$59.00**
Optional Calibrator	**355TE046 $299.00**	**355TE769 $399.00**	**355TE769 $399.00**	–	–

Light Meters

JUST THE FACTS				
TT No.	**355TE036**	**355ME216**	**355ME025**	**355TE125**
Meter Type	**Light Datalogger**	**Light w/ PC interface**	**Light**	**Light**
Fc Ranges	20/200/2k/20k	200.0/2k/5k	200.0/2k/5k	20/200/2k/20k
Lux Ranges	20/200/2k/20k	2k/20k/50k	2k/20k/50k	20/200/2k/20k
Basic Accuracy	±3%	±4%	±5%	±3% + 10 digits
Resolution	0.01/0.1/1/10	0.1/1/10	0.1/1/10	0.01 0.1 1 10
Display Type	3-1/2 Digit LCD	3-1/2 Digit LCD	3-1/2 Digit LCD	3-1/2 Digit Backlit LCD
Sensor Type	Photo-Diode	Photo-Diode	Photo-Diode	Photo-Diode
Color/Cosine Corrected	Yes	Yes	Yes	Yes
Lighting Types	1 Setting	4 Setting	1 Setting	1 Setting
Analog Output	–	–	1mVDC per count	1mVDC per count
Data Hold	Yes	Yes	Yes	Data+Peak
PC Interface/Datalogger	Windows/16,000rdgs	Optional	–	–
Warranty	1 Year	3 Years	1 Year	1 Year
CE Listed	Yes	Yes	Yes	Yes
PRICE	**$229.00**	**$169.00**	**$119.00**	**$119.00**

Humidity/Temperature Clock

Designed with black metal rim and a classic ivory face. This easy to read precision clock with second hand displays temperature and humidity. Thermometer displays -10 to 120°F and -20 to 50°C, and humidity displays 0 to 100% RH scale. **Includes:** AA Battery. 12" Dia.

No. 335MI501 ..... **$39.00**

Hygro-Thermometer Clock

This portable unit is ideal for desktop or benchtop with a large LCD display of %RH, temperature, time, date and monthly calendar plus a clock alarm. Alarm clock features a four-minute snooze button. **Features**: °C/°F switchable; temperature range of 14 to 140°F (-10 to -60°C); humidity range of 20 to 90%; accuracy of ±5°.

No. 355AC800 ..... **$29.00**

Stopwatch/Timer

Large display stopwatches function as a clock or timer, both include 1/100th of a second timing, clock with alarm function and easy to reach controls in a water resistant case. (A) with 23hr 59min and 59sec clock, split lap timer, wake and snooze alarm. (B) with 9hr 59min countdown timer, 10 lap memory, dual display. Both models include 39" neckstrap and battery.

A. No. 355ME365 ..... **$19.00**

B. No. 355TE528 ..... **$29.00**

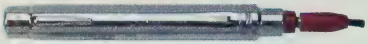
Super Large LCD Readout!

Big Digit Countdown Timer

Has two .75" digits and two .53" digits. Timing capacity is 99 minutes and 59 seconds. Setpoint is automatically stored in memory, and is reset by pressing the "Start/Stop" button after the alarm sounds. Large push buttons for easier use. The unit can be attached by a rear clip or magnet, and has an easel stand for table use. Operates on one AAA battery. Dimensions: 2.5"L x 2.5"W x 0.5"D

No. 355ME545 ..... **$19.00**

Continuity Tester



Your pocket-size tester checks continuity of dead circuits, grounds on conduit systems and identifies wires in multi-wire cables. Use on electrical control equipment, panel-board wiring and a variety of other applications. Tester is powered by two AA-size batteries (not included) and comes with a 4 ft. removable cord with alligator clip. 5-1/2" OAL.

No. 462TE030 ..... **$16.40**

Magnetic Eraser

Demagnetizer

Lightweight, this handy tool is the most effective demagnetizer for color TVs, measuring tools, dies, tool bits and cutting tools. **Specs:** Consumption: 3.0A; Continuous Service Hour: 2.5 minutes; Wt: 800g; Dimensions: 30 mm W x 30 mm H x 195 mm L.

No. 692PR021 110 volts **$59.95**

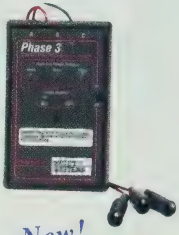
No. 692PR022 220 volts **$59.95**

Hi-Power Degaussing Coil

Eliminate magnetic fields in CRT's and computer monitors, before purity adjustment. Coil encased in a hi-impact 13" dia. molded, plastic housing.Supplied with 8' cord and momentary contact switch to de-energize coil.

No. 388MI317 ..... **$46.10**

Phase 3 Sequence Analyzer

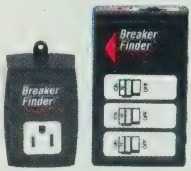


Phase 3 verifies the presence and sequencing of all three-power line phases. It indicates the matching motor leads and ensures that the motor will turn in the desired direction the first time you apply power. **Features:** single set of 3 color coded leads for both power line and motor testing; automatically determines whether it is attached to the power line or to the motor; works at both 60 Hz and 400 Hz; functions at all normal three phase voltages from 200 VAC to 600 VAC. Requires one 9V battery. **(USA)**

No. 589TE101 ..... **$139.95**

New!

Breaker Finder®



Breaker-Finder makes it possible to quickly find the correct breaker controlling a specific live branch circuit. Operation is simple. Connect the Transmitter to a live circuit. LED will verify the circuit is live. Scan the breakers in the panel with the receiver. A beep and flashing red LED will verify the correct breaker. Work with circuit breakers, fuses or GFCI breaker for circuits from 90 to 300V AC. Requires one 9V battery. **(USA)**

No. 589TE100 ..... **$139.95**

Earth Ground Resistance Tester

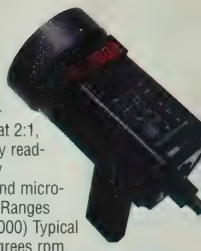
Check compliance with NEC and OSHA specs Measure earth resistance of single rod or small ground grids. Check lighting protection, remote tower, and electrode equipment. This tester includes all the hardware necessary to measure earth ground in three ranges to 2000Ω. 3-1/2 Digit (1999 count) multi-function LCD with data hold. Measure Earth Resistance in three ranges (20/200/2000Ω). 2A (800Hz) test current and frequency. 0 to 200Vac (40 to 500Hz) AC earth voltage/frequency. ±1.0% of reading basic accuracy. Auto Power Off and three minute timer. Overload Protection. Open circuit, overrange, and low battery indications. Meets IEC-1010 (Cat. III - 600V).

No. 355TE152 Digit Earth Ground Resistance Tester..... **$199.00**

No. 355TE153 Replacement Earth Bars / 2 pk **$19.00**

No. 355TE154 Replacement Set of Test Leads..... **$29.00**

Digital Stroboscope



Speed displayed as rpm/fpm. Phase shift (phase delay) adjustment to offset the strobes flashing signal is displayed in degrees and milliseconds for advanced motion analysis. Intelligent microprocessor design provides special functions. Includes stop motion function at 2:1, 3:1, 4:1 for harmonics. Allows user to divide or multiply reading by two. Coarse and Fine adjust via keypad. Memory stores/recalls three measurements. Crystal time base and microcomputer LSI circuit provides 0.01% accuracy. **Specs:** Ranges (Resolution): 12 to 12,000 rpm/fpm (0.1<1000; 1.0 >1000) Typical max 15,000. Phase Shift Adj.: 0 to 2000 mS; 0-360 degrees rpm.

No. 355TE840 ..... **$349.00**

No. 355PA834 Spare Xenon Lamp **$29.00**

EXTECH INSTRUMENTS

MSI-AJK-95 Single Axis Gaussmeter

This single-axis ELF gaussmeter offers milligauss measurement even in situations where the ELF frequencies generating the magnetic field are not the usual 60 Hz + 3rd harmonic (180 Hz) mixture, and can correctly measure harmonics through the 11th within *ANSI Standard 644-1987.* **Features**: Flat frequency response; 25Hz - 3kHz bandwidth (-3dB); Accuracy: ±1% from 50Hz thru 300Hz, ±2% from 45Hz thru 420Hz, ±5% from 40Hz thru 600 Hz; Sensor outputs 1 mV/mG to data loggers; Range 0.1 mG over 200 Gauss (200,000 mG). Unit rated accuracy in airlines (400 Hz), ships, subways, electric cars, electric rail, and more. Calibrated to EPA-test reference. NIST Traceable. Includes: Meter, Self-contained sensor module, 2' shielded lead, 9V battery and 33-Page Magnetic Field Guide.

No. 533TE095 ..... **$235.00**

RH + Temp Indicator

This desktop indicator has two large, 0.5" liquid crystal displays. Built-in, two position flip stand and wallmount hangers. Measures temperature from -58° to 158°F or -50° to 70°C with a 0.1° resolution and R.H. from 20% to 95% to 1% RH. Factory calibrated to an RH accuracy of 5%. Includes one 1.5 volt AAA battery. Dimensions: 5.3"L x 2.5"W x 0.6"D. ***One-Year Warranty.***

No. 355TE577 RH + Temperature Indicator °C **$55.00**

No. 355TE579 RH + Temperature Indicator °F **$55.00**

Heavy Duty Thermometers

Choose a single or dual input direct for differential measurements to 0.1% with the Type K Thermometers. Dual input model provides differential readings. Front panel offsets adjustment to optimize accuracy. Displays maximum reading plus Data Hold on large LCD display. **Includes**: 9V battery, holster with stand, wrist strap and temperature probe. **Specs:** Temperature: -50 to 1300°C (-58 to 2000°F); Resolution: 0.1° or 1°.

No. 355ME204 Single Input **$79.00**

No. 355ME307 Double Input .. **$99.00**

RH/Temperature Pen

Replaces your Analog and Digital Thermometers, Sling Psychrometers, Expensive Digital Temperature and Humidity Instruments. Features: Temperature testing, Humidity testing, Min/max memory; Display temperature and humidity simultaneously; F/C switchable, Data Hold; **Specs**: 10 to 90% RH (±5%), 32 to 122°F (0 to 50°C) ±1.5°, Supplied with battery and pocket clip. Optional kit includes calibration solutions and carrying case used with built in calibration utility.

No. 355TE580 RH/Temperature Pen..... **$55.00**

No. 355AC582 RH/Temperature Pen Kit **$99.00**

TECHNI-TOOL
Phone: 1-800-832-4866
or 1-610-941-2400

Raytek®

MX2

MX4+

ST30

ST80

MiniTemp

Just the Facts					
Model No.	**MX2**	**MX4+**	**ST30**	**ST80**	**MiniTemp**
TT No.	**675TE882**	**675TE883**	**675TE300**	**675TE800**	**675TE004**
Temperature Range	-30° to 900°C -25° to 1600°F	-30° to 900°C -25° to 1600°F	-32° to 545° -25° to 950°F	-32° to 760°C -25° to 1400°F	-18° to 260°C 0° to 500°F
Distance to Spot Ratio	60:1	60:1	12:1	50:1	6:1
Circular Laser Sighting	16 point	16 point	8 point	8 point	Class II
Emissivity	.30 to 1.5 Adjustable	.30 to 1.5 Adjustable	Pre-Set 0.95	.10 to 1.0 Adjustable	Pre-Set .95
Max, Min, DIF, AVG Temp	Max, Min	Yes	Max	Yes	No
Last Reading Recall	No	No	No	Yes	No
Software, Data Logging Data Output Analog	No	Data Logging 100 points	No	Data Logging 12 point	No
Temperature Display	0.1°C/F	0.1°C/F	0.2°C or 0.5°F	0.1°C/F	No
Display Hold (7 Sec.)	No	No	Yes	Yes	Yes
Hi/Low Alarm	High	Yes	No	Yes	No
Bar Graph Display	Yes	Yes	No	No	No
LCD Backlight	No	No	Yes	Yes	Yes
Probe Jack	No	No	No	Yes	No
Case	Soft Case	Soft Case	Hard Case	Hard Case	Optional Soft Case
Power	2 AA Batteries	Plug in Power Supply (110V or 220V)	9V Alkaline or Nicad Battery	9V Alkaline or Nicad Battery	9V Alkaline or Nicad Battery
PRICE	**$795.00**	**$1295.00**	**$249.00**	**$449.00**	**$99.00**

Handheld InfraRed Thermometer

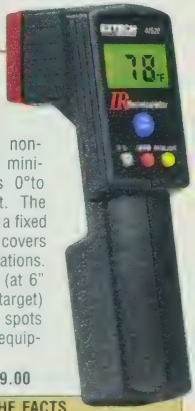
Make non-contact IR measurements with laser pointer plus type K sensor with the Handheld InfraRed Thermometer. Features: °F/°C switchable with 0.1/1° resolution; non-contact InfraRed surface temperature readings with wide emissivity adjustment of 0.1 to 0.95; type K thermocouple input enables contact measurements for IR surface emissivity verification and to improve accuracy; built in laser pointer for better aim; compact, heavy duty housing with handle for better aiming at target; large 4 digit LCD display of temperature and functions; record/recall both Min/Max readings; % enable you to display relative temperature measurements; data hold to freeze temperature when working in hard to reach or dimly lit areas; manual offset adjustable to improve accuracy. **Includes:** 9V battery. **Specs:** Range 14 to 230°F (0.1°); 14 to 662°F (1°); Accuracy: ±3°F/2°C; Target Ratio: 7:1; Dimensions: 7.7 x 4.7 x 2.3".

No. 355TE552 ..... **$169.00**

Infrared Non-Contact Thermometer

This laser-guided, non-contact, infrared thermometer provides instantaneous (800 msec) response to surface temperature measurement of an object or area up to a distance of one meter. As contact with the product is not necessary, it is ideal for safely checking high temperatures and moving objects, eliminating the possibility of product damage or contamination. The infrared thermometer features a laser guide to pinpoint the exact location of measurements, °C/°F switch, low battery indicator, display memory hold and auto backlight function. It also has a temperature range of -4°F to 752°F (-20°C to 400°C), repeatability of ±2°F (±1°C) and is accurate to within 1%.

No. 285TE103 ..... **$495.00**



Mini-Handheld InfraRed Thermometer

This °F/°C switchable, non-contact laser pointing mini-thermometer measures 0°to 600°F without contact. The built-in laser pointer has a fixed emissivity (0.95) that covers 90% of surface applications. Its narrow field of view (at 6" distance measures 1" target) allows you to locate hot spots in electrical panels and equipment.

No. 355ME520 ..... **$99.00**

JUST THE FACTS	
Range	0-600°F/-20-320°C ± 2%
Resolution	1°F (-20 to 320°C)
Field View	6:1 (6" distance: 1" target)

Prices in this catalog are effective January 1. 2001. While we attempt to hold prices, we cannot control when our vendors increase prices.
All prices are subject to change without notice.
We reserve the right to correct misprints.

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Watch For Our *NEW* e-commerce internet site ...COMING January 2001!

TECHNI-TOOL® TERMS, CONDITIONS & NOTICES

1. PRICES:
Prices in this catalog are effective **January 1, 2001**. While we attempt to hold prices, we cannot control when our vendors increase prices. **All prices are subject to change without notice.** We reserve the right to correct misprints.

2. TAXES:
Please add applicable sales tax if your order is being shipped to any of the following listed states: AL, AZ, CA, CO, CT, FL, GA, IL, MA, MD, MI, MN, NC, NJ, NY, OH, PA, TX, VA, WA. State Sales Tax will appear on all shipments to the listed states unless a signed official state tax exemption certificate is furnished to Techni-Tool.

3. QUOTATIONS:
All written quotations are valid for thirty (30) days from day of issuance— unless specifically stated in writing. Quotations, after being accepted, will be subject to credit approval before shipment. We reserve the right to correct typographic errors in quotations.

4. MINIMUM ORDER: $30.00

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6. HAZ-MAT SHIPPING:
All products appearing with this symbol incur an additional per shipment surcharge which will appear on your invoice. Products appearing with this symbol will not incur an additional per shipment surcharge. Items with either symbol must ship via Ground Carrier. We strongly suggest the user purchase in case quantities to minimize your cost.

HAZ-MAT items are **NON-REFUNDABLE & NON-RETURNABLE!**

7. OPEN ACCOUNT BILLING TERMS:
30 Days Net to D&B rated, credit accepted companies. Non-rated companies wishing to open an account should forward three (3) trade references and one (1) bank reference. Allow one (1) week to clear. To avoid shipping delay until credit is approved, companies and individuals should use a credit card.

8. SHIPPING:
All shipments are F.O.B., Worcester, PA, USA, unless agreed to in writing. Unless instructed, we reserve the right to pack and ship your order in the most economical way. Our primary carrier is United Parcel Service.

95% of all items you order ship within four hours of receipt of your order. Place your Air orders by 5pm EST; Ground orders by 4:30pm EST; and Credit Card Orders by 2:30pm EST, and we will ship them the same day (Established Account Required) via UPS® (unless specified otherwise). For faster service, we offer UPS Next Day Air® and 2nd Day Air®. Ask your representative about specific information and charges.

9. RETURNS AND EXCHANGES:
All Standard Techni-Tool Products Are Backed By This Unconditional Pledge: "If Within 30 Days, You Are Not Satisfied With Any Product Purchased (Except Haz-Mat, Benches, Chairs; Or Special Order Items), You May Return It For Replacement, Credit Or Refund, Exclusive Of Shipping Charges."

To return a product, simply call 800-832-4866 or 610-941-2400 for a return authorization number. There is no restocking fee, except as noted, if products are returned in saleable condition within 30 days. **(Do Not Write Anything On The Manufacturer's Original Packaging Or Use As A Shipping Carton. Include All Accessories, Manuals And Warranties.)** Please include a copy of the packing list or invoice with a reason for the return. Late returns and incomplete returns will incur a 15%, or higher, restocking fee. We reserve the right not to accept returns after 90 days.

10. DAMAGED SHIPMENTS AND CLAIMS:
Please inspect all shipments immediately upon receipt.
Although Techni-Tool takes every reasonable precaution to assure the safe arrival of your shipment, accidents or problems occasionally occur. We suggest that you inspect all shipments immediately. All claims must be made within 10 days of date of shipment. If there is a problem, please notify the carrier immediately for inspection.

11. LEASING:
Techni-Tool offers leasing through a recognized third party Leasing Company. The Minimum Lease is $1,000.00, for one to five year periods. Rates, Lease Terms and Conditions, Buy Out Options, Credit Disclosures, Credit Terms, Prepayments, etc., are solely between the Lessor and Lessee. For additional information, please call one of our Customer Service Representatives.

12. EXPORT ORDERS:
You can buy a majority of the leading brands direct from Techni-Tool at low USA prices and save 30 to 50%. Due to contractual restrictions, some products are not available for export to certain countries. Please FAX your request for a quotation listing brand names, part numbers and/or performance requirements. We will FAX back a prompt response.

13. MANUFACTURER WARRANTIES:
No liability is assumed for any consequential damages resulting from the use of a product. Techni-Tool is not responsible nor warrants any product for merchantability nor fitness for a particular purpose. Warranties by the manufacturer, express or implied, including but not limited to the warranties of merchantability and fitness for a particular purpose, are the sole responsibility of the provider.

We apologize for any typographical errors–let us know if you find any.

14. LIMITATION OF LIABILITY
No liability is assumed for any consequential damages resulting from the use of a product. Techni-Tool is not responsible nor warrants any product for merchantability nor fitness for a particular purpose. Warranties by the manufacturer, express or implied, including but not limited to the warranties of merchantability and fitness for a particular purpose, are the sole responsibility of the provider.

15. WARNING:
Certain products when used for soldering and similar applications, produce chemicals known to the state of California to cause cancer and birth defects or other reproductive harm, including: solders and/or fluxes; soldering irons, guns, heat guns, tips, etc.; butane soldering irons, including butane.

16. TRADEMARKS
All trademarks and trade names used herein are copyrights of their respective holders.

41 YEARS OF CUSTOMER SERVICE MAKES THE DIFFERENCE.

Customer service is our most important product. It's our commitment to you.
Whether you order by fax, mail, phone, E-mail or EDI, we provide the technical assistance for easy ordering.

TOP QUALITY PRODUCTS AND SERVICE
Techni-Tool offers only the best products from the finest manufacturers. We offer you the best of the best! Each new product passes a quality control checklist. Then we put it through a second quality assurance checklist before we ship it to assure you receive the high quality product you've come to expect. For internal quality control and training we periodically monitor phone calls to provide the best service.

INTERNATIONAL ORDERS Techni-Tool has a staff of export professionals ready to serve you. Tools and tool kits can be delivered to your metric size requirements. Payment can be made by credit card, international bank draft, irrevocable letters of credit, and wire transfer.

MEXICO Contact our Maquiladora Specialist at 480-829-1200, Monday through Friday, 8:00am to 5:00pm, Pacific Coast Time, or *FAX: 480-829-7002.*

UNITED KINGDOM, EUROPE, AFRICA
Contact our European office at 20A High St., Yatton, North Somerset, BS19 4JA, U.K., Phone: 01934-834433 or FAX: 01934-876989, or contact us directly.

CANADA, MEXICO, LATIN AMERICA AND ALL OTHER COUNTRIES Contact our Sales Desk at 610-941-2400 from 8:00am to 8:00pm Eastern Standard Time, or *FAX: 610-940-4900, 24 Hours a Day.*

TECHNI-TOOL® Catalog 74/75 ORDER FORM

FOR FASTEST SERVICE. PHONE. . . 800-832-4866 or 610-941-2400
E-mail: sales@techni-tool.com

OR, MAIL TO: 1547 N. Trooper Road, Worcester, PA 19490 USA • FAX ORDERS 800-854-8665 or 610-828-5623 24 Hrs A Day

1. Billing Address (Please print clearly. Fill out all spaces.)

Key Code # (See Back Cover): _____

Company: _____

Name: _____ Title: _____

Address: _____ M/S: _____

City: _____ St: _____

Zip: _____ Country: _____

Business Phone: _____ Business FAX: _____

2. Shipping Address (If different than Billing Address)

Attention: _____ Title: _____

Company: _____

Address: _____ M/S: _____

City: _____ St: _____

Zip: _____ Country: _____

Phone #: _____ FAX #: _____

Purchase Order Number: _____

May we substitute an equal or superior item if we are out of stock? ☐ YES ☐ NO

3. Ordering By Mail, FAX

4. Part Number	Qty	Page No.	Description	Price Per Unit	Total
	1		Techni-Tool 360-page Master Catalog	Free	Free
			Minimum Merchandise Order $30.00		

PLEASE NOTE OUR NEW ADDRESS!

Please call 1-800-832-4866 or 1-610-941-2400 to confirm prices and shipping charges, prior to mailing or faxing this form.

5. Shipping Method

- ☐ UPS Next Day Air
- ☐ UPS 2nd Day Air
- ☐ UPS Ground
- ☐ Other _____

UPS NEXT DAY AIR 2ND DAY AIR

Next Day Air • 2nd Day Air

Unless special instructions are given, we will pack and ship your order in the most economical way.

Shipping/Handling charges for average 10 lbs. package. Charges may be slightly higher for heavier packages

ORDER VALUE —UPS ONLY/ U.S.A.

- $30.00-$99.00-Add $8.00
- $100.00-$199.00-Add $10.00
- $200.00 - $499.00 - Add $13.00
- Over $500.00 & Export - By Quotation

Items marked with HAZ-MAT SYMBOL incur additional charges

Items marked with NO AIR SYMBOL will not incur additional charges. These items can only be shipped by ground.

6. Terms & Conditions:

Terms, Conditions, Ordering and general information are located on the Reverse Side of this form.

- *Prices subject to change without prior notice.*
- *Minimum Order $30.00*

7. General Information:

All orders shipped F.O.B., Worcester, PA. Recipient responsible for all Taxes, Excise and Import Duties. We reserve the right to correct typographic errors in quotations. Quotations, after being accepted, will be subject to credit approval before making shipment.

Shipping & Handling Charges	
HAZ-MAT Charges ($8 Grd.)	
Please add applicable sales tax if your order is being shipped to any of the below listed states: AL, AZ, CA, CO, CT, FL, GA, IL, MA, MD, MI, MN, NC, NJ, NY, OH, PA, TX, VA, WA.	
GRAND TOTAL *Minimum Order $30.00*	

8. Payment Method

__Open Account* (Net 30 days)
* With Credit Approval (See Reverse Side)

__Prepayment (Enclose check or money order.)

__Credit Card (Fill in complete information):

☐ VISA ☐ MasterCard ☐ Discover

☐ AMERICAN EXPRESS ☐ DISCOVER ☐ GSA Advantage! SMART PAY

Credit Card or Techni-Tool Acct. # _____

Expiration Date: MO YR

Card Holder Name: _____

Shipping address same as on card? ☐ YES ☐ NO

X _____ (Signature)

FIBER OPTIC DUSTER!

New!

Tech-Duster CO_2™ Power Duster

Tec-Duster CO_2 Power Cleaner is an ozone-safe dust and particle remover. Replaces large aerosol dusters with simple, safe and 100% pure high-velocity Tec-Duster CO_2 gas. Safely cleans off dust and particles from equipment, computer, audio equipment, medical and laboratory equipment, circuit boards, and more. This cleaner is safe on plastics and does not remove lubricants. Leaves no residue, staining, or spotting, and is non-flammable, non-toxic, and non-corrosive. Cylinders are disposable and recyclable. **Specs:** Contents: 74g, CO_2 Carbon Dioxide (99.9% pure); Type of Gas: Non-Flammable, UN 1013 CAS# 124-38-9. **(USA)**

No. 758CH521 ..... **$32.20**

No. 758CH522 Replacement Cylinder **$10.10**

Tech-Duster Valve

Tech-duster valve for CO_2 with two nozzles and base. ***Lifetime Warranty.*** **(USA)**

No. 758PR523 ..... **$85.50**

Standard duty tech duster valve with tapered nozzle and base. **(USA)**

No. 758PR524 ..... **$13.00**

TECHNI-TOOL

FIBER OPTIC CLEANING KIT

Whether you work at the bench top or in the field, Techni-Tool's Fiber Optic Cleaning Kit is your best choice for on-site cleaning of hand oils, cable lubricant and other contaminants for fiber optic cable, and more.

Your multi-purpose cleaning kit contains our most popular fiber optic cleaning products in one convenient kit and includes one each of the following items: two ounce all purpose bottle of 99% pure Isopropyl Alcohol; 25 Pre-Saturated Isopropyl Alcohol Wipes; Bag of 50 Small Foam Tip Swabs, 6" OAL; Bag of 30 double-ended TearDrop Cotton Swabs, 3-1/4"; Bag of 25 low lint, hydroentangled, 100% optical cleaning Polyester Wipes, 4" x 4"; 10 oz. fill Can of Tech Duster "O" inert dusting gas, which contain. Tech Duster "O" contains no CFC's and no HCFC's.

No. 758CH850 .....**$25.25**

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Check out our NEW LOW PRICES!

Tech Duster "O"®
Inert Dusting Gas 10 Oz. Fill

Safely removes dust, dirt, oxide particles and other dry contaminant's from delicate instruments. The high-pressure spray reaches the most inaccessible areas to remove dust instantly without residue. Will not scratch or abrade sensitive surfaces.

Tech Duster "O"® is non-toxic, non-corrosive, non-flammable and completely safe to use with all materials. **Zero ozone depletion.Safe for the environment, No CFC's-No HCFC's!. Contains-HFC (134A), Safe Pressure-Only 81 PSI pressure, Meets Federal specs BB- F-1421, Completely dry-leaves no residual film. Non-toxic, non-flammable. Filtered to 0.3 microns.**

A) No. 758OZ137 Refill for Tech Duster "O"® System
(1-11) **$6.30 each** (12+) **$5.30 each**

B) No. 758OZ140 Tech Duster "O"® System
(Chrome Valve Nozzle &1 Can)
(1-11) **$24.95 each** (12+) **$21.95 each**

C) No. 758OZ134 10 oz. Disposable Can & Nozzle
(1-11) **$6.10 each** (12+) **$5.75 each**

D) No. 754AC928 Chrome valve for Tech Duster "O"®
(1-11) **$27.00 each** (12+) **$23.00 each**

Big Blast Tech Duster "O"

The Big Blast Tech Duster "O" is 10 ounces of exceptionally pure, moisture free, inert gas. This high velocity duster removes particles without the use of harmful solvents. Designed to remove microscopic contaminants and dust particles from all types of electronic equipment. Features an inert and moisture free gas that is quad filtered, non-flammable, non-ozone depleting and leaves no residue. **Specs:** Chemical Components: 1, 1, 1, 2-Tetrafluoroethane; Technical Data: Flash Point: None; Ozone Depletion Potential: 0; Vapor Pressure: 81 psi g @ 25.C; Non-Exempt Volatile Organic Compounds (VOCs): 0 g/l.

E) No. 754CH697..... **$9.75**

New!

NOW!

SHIPPED BY GROUND!
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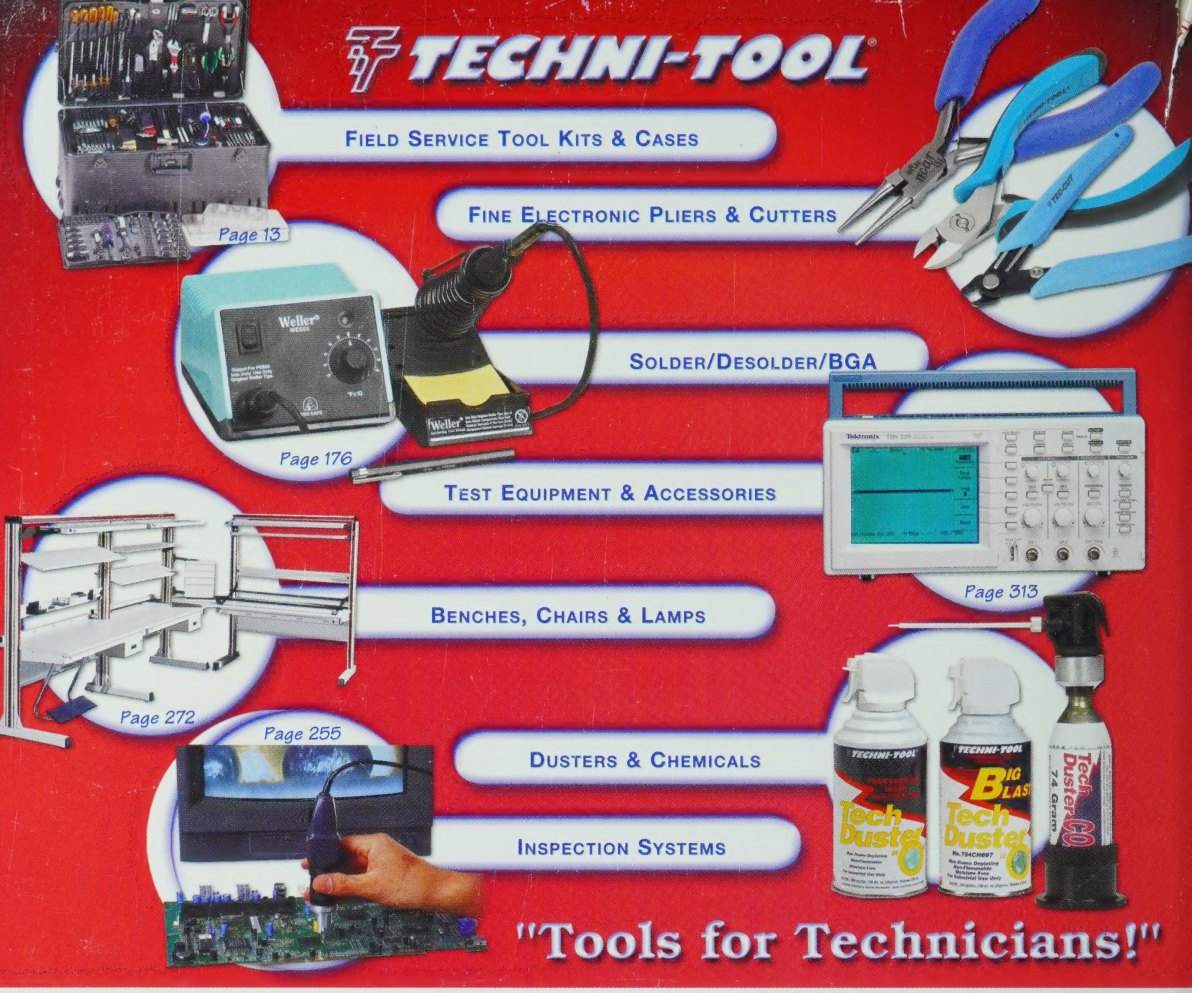
TECHNI-TOOL
Fax: 1-800-854-8665



TECHNI-TOOL®
1547 North Trooper Road
Worcester, PA 19490-1117

MAILROOM: If addressee is not at this Address, please deliver to:
- ☐ Purchasing Dept.
- ☐ Chief Engineer
- ☐ Plant Manager
- ☐ Tool Crib

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